CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : 613 PINE AVENUE

LABELLA ASSOCIATES P.C.

300 State Street

Suite 201

Rochester, NY - 14614

Phone No: 585-454-6110

ORDER ID : O3631

ATTENTION : Andrew T. Benkleman

NELAP ACCREDITED TNI LABORATORY

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP

Laboratory Certification ID # 20012

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Cover Page

Order ID : O3631

Project ID : 613 Pine Avenue

Client : LaBella Associates P.C.

Lab Sample Number	Client Sample Number
O3631-01	SB-02(2-4)
O3631-02	SB-02(2-4)MS
O3631-03	SB-02(2-4)MSD
O3631-04	SB-04(2-4)
O3631-05	SB-07(3-5)
O3631-06	SB-09(3-5)
O3631-07	SB-10(5-6)
O3631-08	SB-11(3.5-4.5)
O3631-09	DUP
O3631-10	RINSATE-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:18 am, Apr 12, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

LaBella Associates P.C.
Project Name: 613 Pine Avenue
Project # N/A
Chemtech Project # O3631
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/14/2023.
1 Water sample was received on 07/14/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for SB-02(2-4)MS. No internal standard failed in MSD therefore no corrective action was taken.
The Retention Times were acceptable for all samples.

The MS {O3631-02MS} with File ID: VY014684.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[63%], 1,2-Dibromoethane[57%], 2-Butanone[34%], 2-Hexanone[38%], 4-Methyl-2-Pentanone[46%], Acetone[32%] and Bromoform[63%] due to matrix interference.

The MSD {O3631-03MSD} with File ID: VY014685.D recoveries met the acceptable requirements except for Methyl Acetate[178%] due to matrix interference .

The RPD for {O3631-03MSD} with File ID: VY014685.D met criteria except for 1,1,2,2-Tetrachloroethane[56%], 1,1,2-Trichloroethane[54%], 1,2,3-Trichlorobenzene [31%], 1,2-Dibromo-3-Chloropropane[79%], 1,2-Dibromoethane[60%], 1,2-Dichloroethane [43%], 1,2-Dichloropropane[24%], 2-Butanone[98%], 2-Hexanone[89%], 4-Methyl-2-Pentanone[81%], Acetone[95%], Bromochloromethane

[41%], Bromodichloromethane[28%], Bromoform[57%], Chloroform[21%], cis-1,2-Dichloroethene[21%], cis-1,3-Dichloropropene[30%], Dibromochloromethane[46%], Methyl Acetate[84%], Methyl tert-butyl Ether[55%], Methylene Chloride[46%] and t-1,3-Dichloropropene[42%] . Due to difference in MS and MSD results.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 15% in the Initial Calibration method (82N071023S.M) for Bromomethane, Chloroethane, Methylene Chloride, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (82Y071323S.M) for Methylene Chloride, this compound is passing on Linear Regression.

The Continuous Calibration File ID VY014663.D met the requirements except for 2-Butanone,2-Hexanone and Methyl Acetate . But associated samples have not positive hit for these compounds therefore no corrective action was taken.
The Tuning criteria met requirements.

E. Additional Comments:
This data Package has been revised to report TICs as per client request.
This data package has been revised due to data package type changed as per client request.
Samples for MS/MSD for VOC analysis were not provided with this set of samples.
The Blank Spike Duplicate is reported with the data.
Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:18 am, Apr 12, 2024

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: O3631 MATRIX: /Water

METHOD: 8260-Low,8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 15% in the Initial Calibration method (82N071023S.M) for Bromomethane, Chloroethane, Methylene Chloride, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, these compounds are passing on Linear Regression. The % RSD is greater than 15% in the Initial Calibration method (82Y071323S.M) for Methylene Chloride, this compound is passing on Linear Regression. The Continuous Calibration File ID VY014663.D met the requirements except for 2-Butanone,2-Hexanone and Methyl Acetate . But associated samples have not positive hit for these compounds therefore no corrective action was taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {O3631-02MS} with File ID: VY014684.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[63%], 1,2-Dibromoethane[57%], 2-Butanone[34%], 2-Hexanone[38%], 4-Methyl-2-Pentanone[46%], Acetone[32%] and Bromoform[63%] due to matrix interference. The MSD {O3631-03MSD} with File ID: VY014685.D recoveries met the acceptable requirements except for Methyl Acetate[178%] due to matrix interference . The RPD for {O3631-03MSD} with File ID: VY014685.D met criteria except for 1,1,2,2-Tetrachloroethane[56%], 1,1,2-Trichloroethane[54%], 1,2,3-Trichlorobenzene[31%], 1,2-Dibromo-3-Chloropropane[79%], 1,2-Dibromoethane[60%], 1,2-Dichloroethane[43%], 1,2-Dichloropropane[24%], 2-Butanone[98%], 2-Hexanone[89%], 4-Methyl-2-Pentanone[81%], Acetone[95%], Bromochloromethane[41%], Bromodichloromethane[28%], Bromoform[57%], Chloroform[21%], cis-1,2-Dichloroethene[21%], cis-1,3-Dichloropropene[30%], Dibromochloromethane[46%], Methyl Acetate[84%], Methyl tert-butyl Ether[55%], Methylene Chloride[46%] and t-1,3-Dichloropropene[42%] . Due to difference in MS and MSD results.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for SB-02(2-4)MS. No internal standard failed in MSD therefore no corrective action was taken.		✓	
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

This data package has been revised to report TICs as per client request.

This data package has been revised due to data package type changed as per client request.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

S. M. Jodhani
QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:11 am, Apr 12, 2024

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O3631

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 02/21/2024

2nd Level QA Review Signature: N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:19 am, Apr 12, 2024

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284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O3631	**OrderDate:**	7/14/2023 10:29:50 AM
Client:	LaBella Associates P.C.	**Project:**	613 Pine Avenue
Contact:	Andrew T. Benkleman	**Location:**	H11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3631-01	**SB-02(2-4)**	**SOIL**			**07/11/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-04	**SB-04(2-4)**	**SOIL**			**07/11/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-05	**SB-07(3-5)**	**SOIL**			**07/11/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-06	**SB-09(3-5)**	**SOIL**			**07/11/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-07	**SB-10(5-6)**	**SOIL**			**07/12/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-08	**SB-11(3.5-4.5)**	**SOIL**			**07/12/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-09	**DUP**	**SOIL**			**07/11/23**			**07/14/23**
			VOCMS Group1	8260D			07/17/23	
O3631-10	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/14/23**
			VOCMS Group1	8260-Low			07/14/23	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**SB-02(2-4)**								
O3631-01	SB-02(2-4)	SOIL	Chloromethane		1.60	J	1.40	7.40	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Methylene Chloride		9.50	J	9.00	14.8	ug/Kg
			Total Voc :		11.1				
O3631-01	SB-02(2-4)	SOIL	Acenaphthene	*	19.8	J	0	0	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Naphthalene, 1,5-dimethyl-	*	25.0	J	0	0	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Naphthalene, 1,7-dimethyl-	*	12.1	J	0	0	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Naphthalene, 2,3-dimethyl-	*	49.1	J	0	0	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Naphthalene, 2,7-dimethyl-	*	20.8	J	0	0	ug/Kg
O3631-01	SB-02(2-4)	SOIL	Naphthalene, 1,6,7-trimethyl-	*	9.60	J	0	0	ug/Kg
			Total Tics :		136				
			Total Concentration:		148				
Client ID:	**SB-04(2-4)**								
O3631-04	SB-04(2-4)	SOIL	Chloromethane		1.30	J	0.86	4.70	ug/Kg
			Total Voc :		1.30				
			Total Concentration:		1.30				
Client ID:	**SB-07(3-5)**								
O3631-05	SB-07(3-5)	SOIL	Chloromethane		1.10	J	0.78	4.30	ug/Kg
			Total Voc :		1.10				
			Total Concentration:		1.10				
Client ID:	**SB-09(3-5)**								
O3631-06	SB-09(3-5)	SOIL	Chloromethane		1.50	J	1.00	5.70	ug/Kg
O3631-06	SB-09(3-5)	SOIL	Methylene Chloride		12.0		6.90	11.4	ug/Kg
			Total Voc :		13.5				
			Total Concentration:		13.5				
Client ID:	**SB-10(5-6)**								
O3631-07	SB-10(5-6)	SOIL	Chloromethane		1.30	J	0.98	5.40	ug/Kg
			Total Voc :		1.30				
			Total Concentration:		1.30				
Client ID:	**SB-11(3.5-4.5)**								
O3631-08	SB-11(3.5-4.5)	SOIL	Chloromethane		1.20	J	0.97	5.30	ug/Kg
O3631-08	SB-11(3.5-4.5)	SOIL	Acetone		140		10.0	26.7	ug/Kg
			Total Voc :		141				
O3631-08	SB-11(3.5-4.5)	SOIL	.alpha.-Pinene	*	29.6	J	0	0	ug/Kg
			Total Tics :		29.6				
			Total Concentration:		171				
Client ID:	**DUP**								
O3631-09	DUP	SOIL	Chloromethane		0.76	J	0.67	3.70	ug/Kg
			Total Voc :		0.76				
			Total Concentration:		0.76				

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Hit Summary Sheet
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**RINSATE-BLANK**							
O3631-10	RINSATE-BLANK	Water	Acetone	4.70	J	1.20	5.00	ug/L
			Total Voc :	4.70				
			Total Concentration:	4.70				

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O3631-01	SB-02(2-4)	1,2-Dichloroethane-d4	50	46.1	92	50	163
		Dibromofluoromethane	50	47.6	95	54	147
		Toluene-d8	50	49.9	100	58	134
		4-Bromofluorobenzene	50	45.4	91	30	143
O3631-02MS	SB-02(2-4)MS	1,2-Dichloroethane-d4	50	29.9	60	50	163
		Dibromofluoromethane	50	41.3	83	54	147
		Toluene-d8	50	43.1	86	58	134
		4-Bromofluorobenzene	50	33.7	67	30	143
O3631-03MSD	SB-02(2-4)MSD	1,2-Dichloroethane-d4	50	52.6	105	50	163
		Dibromofluoromethane	50	53.6	107	54	147
		Toluene-d8	50	50.3	101	58	134
		4-Bromofluorobenzene	50	43.9	88	30	143
O3631-04	SB-04(2-4)	1,2-Dichloroethane-d4	50	58.1	116	50	163
		Dibromofluoromethane	50	50.2	100	54	147
		Toluene-d8	50	50.8	102	58	134
		4-Bromofluorobenzene	50	50.9	102	30	143
O3631-05	SB-07(3-5)	1,2-Dichloroethane-d4	50	56.3	113	50	163
		Dibromofluoromethane	50	50.7	101	54	147
		Toluene-d8	50	50.4	101	58	134
		4-Bromofluorobenzene	50	50.6	101	30	143
O3631-06	SB-09(3-5)	1,2-Dichloroethane-d4	50	52.9	106	50	163
		Dibromofluoromethane	50	48.9	98	54	147
		Toluene-d8	50	50.7	101	58	134
		4-Bromofluorobenzene	50	49.0	98	30	143
O3631-07	SB-10(5-6)	1,2-Dichloroethane-d4	50	55.0	110	50	163
		Dibromofluoromethane	50	49.5	99	54	147
		Toluene-d8	50	50.3	100	58	134
		4-Bromofluorobenzene	50	48.2	96	30	143
O3631-08	SB-11(3.5-4.5)	1,2-Dichloroethane-d4	50	53.7	107	50	163
		Dibromofluoromethane	50	49.7	99	54	147
		Toluene-d8	50	50.7	101	58	134
		4-Bromofluorobenzene	50	50.0	100	30	143
O3631-09	DUP	1,2-Dichloroethane-d4	50	57.7	115	50	163
		Dibromofluoromethane	50	50.8	102	54	147
		Toluene-d8	50	51.0	102	58	134
		4-Bromofluorobenzene	50	51.3	102	30	143
VY0717SBL01	VY0717SBL01	1,2-Dichloroethane-d4	50	52.5	105	50	163
		Dibromofluoromethane	50	49.6	99	54	147
		Toluene-d8	50	50.0	100	58	134
		4-Bromofluorobenzene	50	49.0	98	30	143
VY0717SBS01	VY0717SBS01	1,2-Dichloroethane-d4	50	51.3	103	50	163
		Dibromofluoromethane	50	50.0	100	54	147
		Toluene-d8	50	49.6	99	58	134
		4-Bromofluorobenzene	50	49.6	99	30	143

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Surrogate Summary

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O3631-10	RINSATE-BLANK	1,2-Dichloroethane-d4	50	50.6	101	74	125
		Dibromofluoromethane	50	55.3	111	75	124
		Toluene-d8	50	45.1	90	86	113
		4-Bromofluorobenzene	50	50.9	102	64	133
VN0714WBL01	VN0714WBL01	1,2-Dichloroethane-d4	50	49.2	98	74	125
		Dibromofluoromethane	50	56.7	113	75	124
		Toluene-d8	50	45.7	91	86	113
		4-Bromofluorobenzene	50	51.0	102	64	133
VN0714WBS01	VN0714WBS01	1,2-Dichloroethane-d4	50	52.0	104	74	125
		Dibromofluoromethane	50	51.5	103	75	124
		Toluene-d8	50	51.1	102	86	113
		4-Bromofluorobenzene	50	50.9	102	64	133
VN0714WBSD0	VN0714WBSD01	1,2-Dichloroethane-d4	50	53.6	107	74	125
		Dibromofluoromethane	50	54.0	108	75	124
		Toluene-d8	50	51.4	103	86	113
		4-Bromofluorobenzene	50	52.1	104	64	133

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : O3631-02MS		**Client Sample ID : SB-02(2-4)MS**						**Datafile :**	VY014684.D		
Dichlorodifluoromethane	51.9	0	51.3	ug/Kg	99				40	150	
Chloromethane	51.9	1.60	50.8	ug/Kg	95				24	175	
Vinyl chloride	51.9	0	61.7	ug/Kg	119				21	175	
Bromomethane	51.9	0	57.4	ug/Kg	111				46	150	
Chloroethane	51.9	0	60.2	ug/Kg	116				30	175	
Trichlorofluoromethane	51.9	0	54.5	ug/Kg	105				53	150	
1,1,2-Trichlorotrifluoroethane	51.9	0	53.7	ug/Kg	103				60	135	
1,1-Dichloroethene	51.9	0	51.0	ug/Kg	98				63	136	
Acetone	260	0	84.1	ug/Kg	32	*			41	175	
Carbon disulfide	51.9	0	46.6	ug/Kg	90				45	126	
Methyl tert-butyl Ether	51.9	0	32.0	ug/Kg	62				56	175	
Methyl Acetate	51.9	0	37.8	ug/Kg	73				32	175	
Methylene Chloride	51.9	9.50	41.3	ug/Kg	61				59	175	
trans-1,2-Dichloroethene	51.9	0	46.9	ug/Kg	90				63	137	
1,1-Dichloroethane	51.9	0	45.2	ug/Kg	87				62	154	
Cyclohexane	51.9	0	47.1	ug/Kg	91				41	131	
2-Butanone	260	0	89.5	ug/Kg	34	*			48	174	
Carbon Tetrachloride	51.9	0	55.6	ug/Kg	107				48	149	
cis-1,2-Dichloroethene	51.9	0	43.8	ug/Kg	84				59	153	
Bromochloromethane	51.9	0	30.1	ug/Kg	58				54	172	
Chloroform	51.9	0	44.0	ug/Kg	85				60	159	
1,1,1-Trichloroethane	51.9	0	51.3	ug/Kg	99				60	149	
Methylcyclohexane	51.9	0	51.0	ug/Kg	98				19	135	
Benzene	51.9	0	47.4	ug/Kg	91				59	140	
1,2-Dichloroethane	51.9	0	35.3	ug/Kg	68				63	153	
Trichloroethene	51.9	0	49.9	ug/Kg	96				45	154	
1,2-Dichloropropane	51.9	0	42.0	ug/Kg	81				67	141	
Bromodichloromethane	51.9	0	40.9	ug/Kg	79				54	160	
4-Methyl-2-Pentanone	260	0	120	ug/Kg	46	*			54	164	
Toluene	51.9	0	47.2	ug/Kg	91				61	134	
t-1,3-Dichloropropene	51.9	0	32.3	ug/Kg	62				47	155	
cis-1,3-Dichloropropene	51.9	0	36.7	ug/Kg	71				56	141	
1,1,2-Trichloroethane	51.9	0	32.5	ug/Kg	63	*			69	148	
2-Hexanone	260	0	100	ug/Kg	38	*			43	164	
Dibromochloromethane	51.9	0	35.0	ug/Kg	67				65	143	
1,2-Dibromoethane	51.9	0	29.8	ug/Kg	57	*			63	144	
Tetrachloroethene	51.9	0	55.3	ug/Kg	107				27	175	
Chlorobenzene	51.9	0	48.6	ug/Kg	94				66	127	
Ethyl Benzene	51.9	0	52.9	ug/Kg	102				54	134	
m/p-Xylenes	100	0	100	ug/Kg	100				51	137	
o-Xylene	51.9	0	50.4	ug/Kg	97				57	139	
Styrene	51.9	0	45.4	ug/Kg	87				47	136	
Bromoform	51.9	0	32.6	ug/Kg	63	*			64	144	
Isopropylbenzene	51.9	0	66.0	ug/Kg	127				44	160	
1,1,2,2-Tetrachloroethane	51.9	0	37.9	ug/Kg	73				18	175	
N-propylbenzene	51.9	0	61.4	ug/Kg	118				10	173	
1,3,5-Trimethylbenzene	51.9	0	59.9	ug/Kg	115				10	175	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	51.9	0	64.6	ug/Kg	124				10	173	
1,2,4-Trimethylbenzene	51.9	0	57.6	ug/Kg	111				10	175	
Sec-butylbenzene	51.9	0	62.0	ug/Kg	119				10	172	
p-Isopropyltoluene	51.9	0	59.5	ug/Kg	115				26	153	
1,3-Dichlorobenzene	51.9	0	51.2	ug/Kg	99				55	131	
1,4-Dichlorobenzene	51.9	0	49.0	ug/Kg	94				57	129	
n-Butylbenzene	51.9	0	51.0	ug/Kg	98				10	175	
1,2-Dichlorobenzene	51.9	0	47.2	ug/Kg	91				54	140	
1,2-Dibromo-3-Chloropropane	51.9	0	27.2	ug/Kg	52				46	175	
1,2,4-Trichlorobenzene	51.9	0	32.4	ug/Kg	62				12	127	
1,2,3-Trichlorobenzene	51.9	0	28.7	ug/Kg	55				10	160	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : O3631-03MSD	**Client Sample ID :** SB-02(2-4)MSD							**Datafile :**	VY014685.D		
Dichlorodifluoromethane	44.9	0	45.1	ug/Kg	100		2		40	150	20
Chloromethane	44.9	1.60	53.2	ug/Kg	115		19		24	175	20
Vinyl chloride	44.9	0	56.3	ug/Kg	125		5		21	175	20
Bromomethane	44.9	0	57.3	ug/Kg	128		14		46	150	20
Chloroethane	44.9	0	57.3	ug/Kg	128		10		30	175	20
Trichlorofluoromethane	44.9	0	49.2	ug/Kg	110		4		53	150	20
1,1,2-Trichlorotrifluoroethane	44.9	0	47.1	ug/Kg	105		1		60	135	20
1,1-Dichloroethene	44.9	0	47.2	ug/Kg	105		7		63	136	20
Acetone	220	0	200	ug/Kg	91		95	*	41	175	20
Carbon disulfide	44.9	0	42.4	ug/Kg	94		5		45	126	20
Methyl tert-butyl Ether	44.9	0	48.9	ug/Kg	109		55	*	56	175	20
Methyl Acetate	44.9	0	80.0	ug/Kg	178	*	84	*	32	175	20
Methylene Chloride	44.9	9.50	52.9	ug/Kg	97		46	*	59	175	20
trans-1,2-Dichloroethene	44.9	0	45.6	ug/Kg	102		12		63	137	20
1,1-Dichloroethane	44.9	0	46.6	ug/Kg	104		17		62	154	20
Cyclohexane	44.9	0	40.0	ug/Kg	89		2		41	131	20
2-Butanone	220	0	220	ug/Kg	100		98	*	48	174	20
Carbon Tetrachloride	44.9	0	48.2	ug/Kg	107		0		48	149	20
cis-1,2-Dichloroethene	44.9	0	47.0	ug/Kg	105		21	*	59	153	20
Bromochloromethane	44.9	0	39.4	ug/Kg	88		41	*	54	172	20
Chloroform	44.9	0	47.1	ug/Kg	105		21	*	60	159	20
1,1,1-Trichloroethane	44.9	0	47.8	ug/Kg	106		7		60	149	20
Methylcyclohexane	44.9	0	39.8	ug/Kg	89		10		19	135	20
Benzene	44.9	0	46.5	ug/Kg	104		13		59	140	20
1,2-Dichloroethane	44.9	0	47.5	ug/Kg	106		43	*	63	153	20
Trichloroethene	44.9	0	46.0	ug/Kg	102		6		45	154	20
1,2-Dichloropropane	44.9	0	46.1	ug/Kg	103		24	*	67	141	20
Bromodichloromethane	44.9	0	47.1	ug/Kg	105		28	*	54	160	20
4-Methyl-2-Pentanone	220	0	240	ug/Kg	109		81	*	54	164	20
Toluene	44.9	0	45.4	ug/Kg	101		11		61	134	20
t-1,3-Dichloropropene	44.9	0	42.9	ug/Kg	96		42	*	47	155	20
cis-1,3-Dichloropropene	44.9	0	42.9	ug/Kg	96		30	*	56	141	20
1,1,2-Trichloroethane	44.9	0	48.8	ug/Kg	109		54	*	69	148	20
2-Hexanone	220	0	220	ug/Kg	100		89	*	43	164	20
Dibromochloromethane	44.9	0	48.5	ug/Kg	108		46	*	65	143	20
1,2-Dibromoethane	44.9	0	48.1	ug/Kg	107		60	*	63	144	20
Tetrachloroethene	44.9	0	51.9	ug/Kg	116		8		27	175	20
Chlorobenzene	44.9	0	46.1	ug/Kg	103		9		66	127	20
Ethyl Benzene	44.9	0	47.3	ug/Kg	105		3		54	134	20
m/p-Xylenes	89.8	0	93.3	ug/Kg	104		4		51	137	20
o-Xylene	44.9	0	47.3	ug/Kg	105		8		57	139	20
Styrene	44.9	0	45.4	ug/Kg	101		14		47	136	20
Bromoform	44.9	0	50.6	ug/Kg	113		57	*	64	144	20
Isopropylbenzene	44.9	0	52.8	ug/Kg	118		8		44	160	20
1,1,2,2-Tetrachloroethane	44.9	0	58.1	ug/Kg	129		56	*	18	175	20
N-propylbenzene	44.9	0	49.1	ug/Kg	109		8		10	173	20
1,3,5-Trimethylbenzene	44.9	0	49.4	ug/Kg	110		5		10	175	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
tert-Butylbenzene	44.9	0	50.1	ug/Kg	112		11		10	173	20
1,2,4-Trimethylbenzene	44.9	0	48.8	ug/Kg	109		2		10	175	20
Sec-butylbenzene	44.9	0	46.7	ug/Kg	104		14		10	172	20
p-Isopropyltoluene	44.9	0	46.2	ug/Kg	103		11		26	153	20
1,3-Dichlorobenzene	44.9	0	46.4	ug/Kg	103		5		55	131	20
1,4-Dichlorobenzene	44.9	0	46.4	ug/Kg	103		9		57	129	20
n-Butylbenzene	44.9	0	40.0	ug/Kg	89		10		10	175	20
1,2-Dichlorobenzene	44.9	0	47.3	ug/Kg	105		15		54	140	20
1,2-Dibromo-3-Chloropropane	44.9	0	54.5	ug/Kg	121		79	*	46	175	20
1,2,4-Trichlorobenzene	44.9	0	33.8	ug/Kg	75		19		12	127	20
1,2,3-Trichlorobenzene	44.9	0	33.8	ug/Kg	75		31	*	10	160	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631
Client: LaBella Associates P.C.
Analytical Method: SW8260-Low **Datafile :** VN078511.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0714WBS01	Dichlorodifluoromethane	20	18.6	ug/L	93			69	116	
	Chloromethane	20	21.7	ug/L	109			65	116	
	Vinyl chloride	20	19.5	ug/L	98			65	117	
	Bromomethane	20	18.7	ug/L	94			42	173	
	Chloroethane	20	20.8	ug/L	104			44	165	
	Trichlorofluoromethane	20	22.8	ug/L	114			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/L	99			80	112	
	1,1-Dichloroethene	20	19.6	ug/L	98			74	110	
	Acetone	100	110	ug/L	110			60	125	
	Carbon disulfide	20	17.6	ug/L	88			64	112	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			78	114	
	Methyl Acetate	20	20.2	ug/L	101			67	125	
	Methylene Chloride	20	20.6	ug/L	103			72	114	
	trans-1,2-Dichloroethene	20	19.7	ug/L	99			75	108	
	1,1-Dichloroethane	20	20.0	ug/L	100			78	112	
	Cyclohexane	20	19.1	ug/L	96			75	110	
	2-Butanone	100	110	ug/L	110			65	122	
	Carbon Tetrachloride	20	20.3	ug/L	102			77	113	
	cis-1,2-Dichloroethene	20	19.8	ug/L	99			77	110	
	Bromochloromethane	20	19.7	ug/L	99			70	124	
	Chloroform	20	21.3	ug/L	106			79	113	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			80	108	
	Methylcyclohexane	20	19.7	ug/L	99			72	115	
	Benzene	20	20.6	ug/L	103			82	109	
	1,2-Dichloroethane	20	20.4	ug/L	102			80	115	
	Trichloroethene	20	19.6	ug/L	98			77	113	
	1,2-Dichloropropane	20	20.5	ug/L	103			83	111	
	Bromodichloromethane	20	20.6	ug/L	103			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	20.3	ug/L	102			82	110	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			79	110	
	cis-1,3-Dichloropropene	20	21.0	ug/L	105			82	110	
	1,1,2-Trichloroethane	20	21.3	ug/L	106			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	21.5	ug/L	108			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.3	ug/L	102			67	123	
	Chlorobenzene	20	19.7	ug/L	99			82	109	
	Ethyl Benzene	20	20.0	ug/L	100			83	109	
	m/p-Xylenes	40	40.9	ug/L	102			82	110	
	o-Xylene	20	19.8	ug/L	99			83	109	
	Styrene	20	20.0	ug/L	100			80	111	
	Bromoform	20	20.6	ug/L	103			79	109	
	Isopropylbenzene	20	19.0	ug/L	95			83	112	
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107			76	118	
	N-propylbenzene	20	19.6	ug/L	98			83	112	
	1,3,5-Trimethylbenzene	20	19.8	ug/L	99			85	112	
	tert-Butylbenzene	20	19.3	ug/L	97			83	112	
	1,2,4-Trimethylbenzene	20	20.0	ug/L	100			85	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low **Datafile :** VN078511.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0714WBS01	Sec-butylbenzene	20	19.4	ug/L	97			81	114	
	p-Isopropyltoluene	20	19.6	ug/L	98			78	116	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			82	108	
	1,4-Dichlorobenzene	20	18.2	ug/L	91			82	107	
	n-Butylbenzene	20	19.8	ug/L	99			75	115	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.3	ug/L	102			68	112	
	1,2,4-Trichlorobenzene	20	16.4	ug/L	82			74	114	
	1,2,3-Trichlorobenzene	20	16.0	ug/L	80			77	113	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631
Client: LaBella Associates P.C.
Analytical Method: SW8260-Low **Datafile :** VN078512.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0714WBSD01	Dichlorodifluoromethane	20	17.9	ug/L	90	3		69	116	20
	Chloromethane	20	20.9	ug/L	104	5		65	116	20
	Vinyl chloride	20	19.0	ug/L	95	3		65	117	20
	Bromomethane	20	19.0	ug/L	95	1		42	173	20
	Chloroethane	20	19.0	ug/L	95	9		44	165	20
	Trichlorofluoromethane	20	19.2	ug/L	96	17		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/L	103	4		80	112	20
	1,1-Dichloroethene	20	19.1	ug/L	96	2		74	110	20
	Acetone	100	100	ug/L	100	10		60	125	20
	Carbon disulfide	20	17.0	ug/L	85	3		64	112	20
	Methyl tert-butyl Ether	20	20.9	ug/L	104	3		78	114	20
	Methyl Acetate	20	20.5	ug/L	103	2		67	125	20
	Methylene Chloride	20	21.0	ug/L	105	2		72	114	20
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	2		75	108	20
	1,1-Dichloroethane	20	20.2	ug/L	101	1		78	112	20
	Cyclohexane	20	18.1	ug/L	91	5		75	110	20
	2-Butanone	100	110	ug/L	110	0		65	122	20
	Carbon Tetrachloride	20	20.1	ug/L	101	1		77	113	20
	cis-1,2-Dichloroethene	20	19.9	ug/L	100	1		77	110	20
	Bromochloromethane	20	19.7	ug/L	99	0		70	124	20
	Chloroform	20	21.0	ug/L	105	1		79	113	20
	1,1,1-Trichloroethane	20	20.4	ug/L	102	0		80	108	20
	Methylcyclohexane	20	19.5	ug/L	98	1		72	115	20
	Benzene	20	20.6	ug/L	103	0		82	109	20
	1,2-Dichloroethane	20	21.4	ug/L	107	5		80	115	20
	Trichloroethene	20	18.5	ug/L	93	5		77	113	20
	1,2-Dichloropropane	20	20.6	ug/L	103	0		83	111	20
	Bromodichloromethane	20	21.4	ug/L	107	4		83	110	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		74	118	20
	Toluene	20	20.3	ug/L	102	0		82	110	20
	t-1,3-Dichloropropene	20	20.7	ug/L	104	1		79	110	20
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	1		82	110	20
	1,1,2-Trichloroethane	20	21.9	ug/L	110	4		83	112	20
	2-Hexanone	100	110	ug/L	110	0		73	117	20
	Dibromochloromethane	20	21.5	ug/L	108	0		82	110	20
	1,2-Dibromoethane	20	21.1	ug/L	106	3		81	110	20
	Tetrachloroethene	20	20.1	ug/L	101	1		67	123	20
	Chlorobenzene	20	19.4	ug/L	97	2		82	109	20
	Ethyl Benzene	20	19.8	ug/L	99	1		83	109	20
	m/p-Xylenes	40	40.8	ug/L	102	0		82	110	20
	o-Xylene	20	19.6	ug/L	98	1		83	109	20
	Styrene	20	20.1	ug/L	101	1		80	111	20
	Bromoform	20	20.6	ug/L	103	0		79	109	20
	Isopropylbenzene	20	18.3	ug/L	92	3		83	112	20
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	1		76	118	20
	N-propylbenzene	20	18.8	ug/L	94	4		83	112	20
	1,3,5-Trimethylbenzene	20	19.0	ug/L	95	4		85	112	20
	tert-Butylbenzene	20	18.5	ug/L	93	4		83	112	20
	1,2,4-Trimethylbenzene	20	19.6	ug/L	98	2		85	111	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260-Low **Datafile :** VN078512.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0714WBSD01	Sec-butylbenzene	20	18.8	ug/L	94	3		81	114	20
	p-Isopropyltoluene	20	19.0	ug/L	95	3		78	116	20
	1,3-Dichlorobenzene	20	19.0	ug/L	95	3		82	108	20
	1,4-Dichlorobenzene	20	18.0	ug/L	90	1		82	107	20
	n-Butylbenzene	20	19.2	ug/L	96	3		75	115	20
	1,2-Dichlorobenzene	20	19.2	ug/L	96	2		82	109	20
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99	3		68	112	20
	1,2,4-Trichlorobenzene	20	16.1	ug/L	81	1		74	114	20
	1,2,3-Trichlorobenzene	20	16.7	ug/L	84	5		77	113	20

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631
Client: LaBella Associates P.C.
Analytical Method: SW8260D **Datafile :** VY014665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0717SBS01	Dichlorodifluoromethane	20	23.5	ug/Kg	117			64	136	
	Chloromethane	20	25.4	ug/Kg	127			70	130	
	Vinyl chloride	20	24.9	ug/Kg	125			72	129	
	Bromomethane	20	25.0	ug/Kg	125			58	141	
	Chloroethane	20	24.9	ug/Kg	125			69	130	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			79	121	
	Acetone	100	120	ug/Kg	120			60	131	
	Carbon disulfide	20	22.2	ug/Kg	111			45	154	
	Methyl tert-butyl Ether	20	23.4	ug/Kg	117			77	129	
	Methyl Acetate	20	25.4	ug/Kg	127			69	149	
	Methylene Chloride	20	23.3	ug/Kg	117			39	175	
	trans-1,2-Dichloroethene	20	22.4	ug/Kg	112			80	123	
	1,1-Dichloroethane	20	22.1	ug/Kg	111			82	123	
	Cyclohexane	20	20.5	ug/Kg	103			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	21.5	ug/Kg	108			76	129	
	cis-1,2-Dichloroethene	20	22.9	ug/Kg	115			82	123	
	Bromochloromethane	20	23.6	ug/Kg	118			62	134	
	Chloroform	20	22.4	ug/Kg	112			82	125	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			80	126	
	Methylcyclohexane	20	20.7	ug/Kg	104			77	123	
	Benzene	20	22.2	ug/Kg	111			84	121	
	1,2-Dichloroethane	20	22.5	ug/Kg	113			81	126	
	Trichloroethene	20	22.2	ug/Kg	111			83	122	
	1,2-Dichloropropane	20	21.8	ug/Kg	109			83	122	
	Bromodichloromethane	20	21.8	ug/Kg	109			82	123	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			70	135	
	Toluene	20	22.1	ug/Kg	111			83	122	
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111			78	124	
	cis-1,3-Dichloropropene	20	21.8	ug/Kg	109			81	122	
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	22.8	ug/Kg	114			79	125	
	1,2-Dibromoethane	20	23.4	ug/Kg	117			80	125	
	Tetrachloroethene	20	22.9	ug/Kg	115			83	125	
	Chlorobenzene	20	22.0	ug/Kg	110			84	122	
	Ethyl Benzene	20	22.1	ug/Kg	111			82	124	
	m/p-Xylenes	40	43.0	ug/Kg	108			83	124	
	o-Xylene	20	22.0	ug/Kg	110			83	123	
	Styrene	20	22.2	ug/Kg	111			82	124	
	Bromoform	20	23.6	ug/Kg	118			75	127	
	Isopropylbenzene	20	21.0	ug/Kg	105			82	124	
	1,1,2,2-Tetrachloroethane	20	22.5	ug/Kg	113			77	127	
	N-propylbenzene	20	20.1	ug/Kg	101			81	123	
	1,3,5-Trimethylbenzene	20	20.9	ug/Kg	104			82	124	
	tert-Butylbenzene	20	20.3	ug/Kg	102			81	125	
	1,2,4-Trimethylbenzene	20	21.3	ug/Kg	106			81	125	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3631

Client: LaBella Associates P.C.

Analytical Method: SW8260D **Datafile :** VY014665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0717SBS01	Sec-butylbenzene	20	20.2	ug/Kg	101			80	124	
	p-Isopropyltoluene	20	20.5	ug/Kg	103			81	125	
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108			83	122	
	1,4-Dichlorobenzene	20	21.5	ug/Kg	108			84	121	
	n-Butylbenzene	20	20.0	ug/Kg	100			78	126	
	1,2-Dichlorobenzene	20	21.7	ug/Kg	109			83	124	
	1,2-Dibromo-3-Chloropropane	20	23.7	ug/Kg	119			66	134	
	1,2,4-Trichlorobenzene	20	22.0	ug/Kg	110			78	127	
	1,2,3-Trichlorobenzene	20	21.6	ug/Kg	108			70	137	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0714WBL01

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VN078510.D Lab Sample ID: VN0714WBL01

Date Analyzed: 07/14/2023 Time Analyzed: 10:10

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0714WBS01	VN0714WBS01	VN078511.D	07/14/2023
VN0714WBSD01	VN0714WBSD01	VN078512.D	07/14/2023
RINSATE-BLANK	O3631-10	VN078526.D	07/14/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0717SBL01

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VY014664.D Lab Sample ID: VY0717SBL01

Date Analyzed: 07/17/2023 Time Analyzed: 11:54

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0717SBS01	VY0717SBS01	VY014665.D	07/17/2023
SB-02(2-4)	O3631-01	VY014677.D	07/17/2023
SB-04(2-4)	O3631-04	VY014678.D	07/17/2023
SB-07(3-5)	O3631-05	VY014679.D	07/17/2023
SB-09(3-5)	O3631-06	VY014680.D	07/17/2023
SB-10(5-6)	O3631-07	VY014681.D	07/17/2023
SB-11(3.5-4.5)	O3631-08	VY014682.D	07/17/2023
DUP	O3631-09	VY014683.D	07/17/2023
SB-02(2-4)MS	O3631-02MS	VY014684.D	07/17/2023
SB-02(2-4)MSD	O3631-03MSD	VY014685.D	07/17/2023

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VN078448.D BFB Injection Date: 07/10/2023

Instrument ID: MSVOA_N BFB Injection Time: 11:48

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	6.1 (7.8) 1
176	95.0 - 101.0% of mass 174	74.2 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN078449.D	07/10/2023	12:21
VSTDICCC050	VSTDICCC050	VN078450.D	07/10/2023	12:46
VSTDICC040	VSTDICC040	VN078451.D	07/10/2023	13:10
VSTDICC020	VSTDICC020	VN078452.D	07/10/2023	13:34
VSTDICC005	VSTDICC005	VN078453.D	07/10/2023	13:58
VSTDICC001	VSTDICC001	VN078454.D	07/10/2023	14:46

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VN078507.D BFB Injection Date: 07/14/2023

Instrument ID: MSVOA_N BFB Injection Time: 08:35

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.3 (1.8) 1
174	50.0 - 100.0% of mass 95	73.6
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.2 (95.4) 1
177	5.0 - 9.0% of mass 176	5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN078508.D	07/14/2023	09:12
VN0714WBL01	VN0714WBL01	VN078510.D	07/14/2023	10:10
VN0714WBS01	VN0714WBS01	VN078511.D	07/14/2023	10:34
VN0714WBSD01	VN0714WBSD01	VN078512.D	07/14/2023	11:07
RINSATE-BLANK	O3631-10	VN078526.D	07/14/2023	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VY014619.D BFB Injection Date: 07/13/2023

Instrument ID: MSVOA_Y BFB Injection Time: 08:36

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	5.5 (7.4) 1
176	95.0 - 101.0% of mass 174	70.7 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY014620.D	07/13/2023	09:05
VSTDICC010	VSTDICC010	VY014621.D	07/13/2023	09:31
VSTDICCC050	VSTDICCC050	VY014623.D	07/13/2023	10:19
VSTDICC100	VSTDICC100	VY014624.D	07/13/2023	10:42
VSTDICC150	VSTDICC150	VY014625.D	07/13/2023	11:05
VSTDICC020	VSTDICC020	VY014627.D	07/13/2023	13:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VY014662.D BFB Injection Date: 07/17/2023

Instrument ID: MSVOA_Y BFB Injection Time: 09:07

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	79.6
175	5.0 - 9.0% of mass 174	5.9 (7.5) 1
176	95.0 - 101.0% of mass 174	77.9 (98) 1
177	5.0 - 9.0% of mass 176	5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY014663.D	07/17/2023	11:00
VY0717SBL01	VY0717SBL01	VY014664.D	07/17/2023	11:54
VY0717SBS01	VY0717SBS01	VY014665.D	07/17/2023	12:23
SB-02(2-4)	O3631-01	VY014677.D	07/17/2023	17:07
SB-04(2-4)	O3631-04	VY014678.D	07/17/2023	17:30
SB-07(3-5)	O3631-05	VY014679.D	07/17/2023	17:54
SB-09(3-5)	O3631-06	VY014680.D	07/17/2023	18:18
SB-10(5-6)	O3631-07	VY014681.D	07/17/2023	18:41
SB-11(3.5-4.5)	O3631-08	VY014682.D	07/17/2023	19:05
DUP	O3631-09	VY014683.D	07/17/2023	19:28
SB-02(2-4)MS	O3631-02MS	VY014684.D	07/17/2023	19:51
SB-02(2-4)MSD	O3631-03MSD	VY014685.D	07/17/2023	20:14

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VN078508.D Date Analyzed: 07/14/2023

Instrument ID: MSVOA_N Time Analyzed: 09:12

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	480719	8.23	810635	9.11	725667	11.87
UPPER LIMIT	961438	8.73	1621270	9.606	1451330	12.371
LOWER LIMIT	240360	7.73	405318	8.606	362834	11.371
EPA SAMPLE NO.						
RINSATE-BLANK	401816	8.24	736822	9.11	683725	11.87
VN0714WBL01	410410	8.24	730500	9.11	682507	11.87
VN0714WBS01	448999	8.24	779605	9.11	687589	11.87
VN0714WBSD01	423054	8.23	721606	9.11	652448	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VN078508.D Date Analyzed: 07/14/2023

Instrument ID: MSVOA_N Time Analyzed: 09:12

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	308560	13.8				
UPPER LIMIT	617120	14.3				
LOWER LIMIT	154280	13.3				
EPA SAMPLE NO.						
RINSATE-BLANK	235374	13.80				
VN0714WBL01	227070	13.80				
VN0714WBS01	270572	13.79				
VN0714WBSD01	260094	13.80				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VY014663.D Date Analyzed: 07/17/2023

Instrument ID: MSVOA_Y Time Analyzed: 11:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	307698	7.78	507929	8.69	451443	11.49
UPPER LIMIT	615396	8.283	1015860	9.185	902886	11.99
LOWER LIMIT	153849	7.283	253965	8.185	225722	10.99
EPA SAMPLE NO.						
SB-02(2-4)	221348	7.79	376974	8.69	332775	11.49
SB-02(2-4)MS	200657	7.79	314084	8.69	246033	11.49
SB-02(2-4)MSD	202383	7.79	333321	8.69	273650	11.49
SB-04(2-4)	211735	7.79	369783	8.69	350135	11.49
SB-07(3-5)	212014	7.78	372842	8.69	353070	11.49
SB-09(3-5)	210931	7.79	367164	8.69	339192	11.49
SB-10(5-6)	208675	7.79	367151	8.69	338917	11.49
SB-11(3.5-4.5)	215322	7.79	375483	8.69	349352	11.49
DUP	208622	7.79	362791	8.69	345625	11.49
VY0717SBL01	240543	7.79	414239	8.69	381722	11.49
VY0717SBS01	290646	7.78	486967	8.69	431608	11.49

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG NO.: O3631

Lab File ID: VY014663.D Date Analyzed: 07/17/2023

Instrument ID: MSVOA_Y Time Analyzed: 11:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	223671		13.422				
UPPER LIMIT	447342		13.922				
LOWER LIMIT	111836		12.922				
EPA SAMPLE NO.							
SB-02(2-4)	150203		13.42				
SB-02(2-4)MS	96285	*	13.42				
SB-02(2-4)MSD	114737		13.42				
SB-04(2-4)	172137		13.42				
SB-07(3-5)	169405		13.42				
SB-09(3-5)	160685		13.42				
SB-10(5-6)	155439		13.42				
SB-11(3.5-4.5)	164868		13.42				
DUP	168156		13.42				
VY0717SBL01	180919		13.42				
VY0717SBS01	217159		13.42				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

SAMPLE DATA

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	3.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014677.D	1		07/17/23 17:07	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	7.40	U	2.40	7.40	ug/Kg
74-87-3	Chloromethane	1.60	J	1.40	7.40	ug/Kg
75-01-4	Vinyl Chloride	7.40	U	1.40	7.40	ug/Kg
74-83-9	Bromomethane	7.40	U	1.80	7.40	ug/Kg
75-00-3	Chloroethane	7.40	U	1.30	7.40	ug/Kg
75-69-4	Trichlorofluoromethane	7.40	U	1.60	7.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	7.40	U	1.10	7.40	ug/Kg
75-35-4	1,1-Dichloroethene	7.40	U	1.20	7.40	ug/Kg
67-64-1	Acetone	37.1	U	13.9	37.1	ug/Kg
75-15-0	Carbon Disulfide	7.40	U	3.30	7.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	7.40	U	0.96	7.40	ug/Kg
79-20-9	Methyl Acetate	7.40	U	2.40	7.40	ug/Kg
75-09-2	Methylene Chloride	9.50	J	9.00	14.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	7.40	U	1.10	7.40	ug/Kg
75-34-3	1,1-Dichloroethane	7.40	U	1.10	7.40	ug/Kg
110-82-7	Cyclohexane	7.40	U	1.00	7.40	ug/Kg
78-93-3	2-Butanone	37.1	U	10.8	37.1	ug/Kg
56-23-5	Carbon Tetrachloride	7.40	U	1.20	7.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	7.40	U	0.95	7.40	ug/Kg
74-97-5	Bromochloromethane	7.40	U	3.50	7.40	ug/Kg
67-66-3	Chloroform	7.40	U	2.00	7.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	7.40	U	1.10	7.40	ug/Kg
108-87-2	Methylcyclohexane	7.40	U	5.00	7.40	ug/Kg
71-43-2	Benzene	7.40	U	0.98	7.40	ug/Kg
107-06-2	1,2-Dichloroethane	7.40	U	1.10	7.40	ug/Kg
79-01-6	Trichloroethene	7.40	U	0.98	7.40	ug/Kg
78-87-5	1,2-Dichloropropane	7.40	U	0.88	7.40	ug/Kg
75-27-4	Bromodichloromethane	7.40	U	1.00	7.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	37.1	U	6.70	37.1	ug/Kg
108-88-3	Toluene	7.40	U	0.96	7.40	ug/Kg

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Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	3.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014677.D	1		07/17/23 17:07	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	7.40	U	1.10	7.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	7.40	U	1.10	7.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	7.40	U	1.30	7.40	ug/Kg
591-78-6	2-Hexanone	37.1	U	7.80	37.1	ug/Kg
124-48-1	Dibromochloromethane	7.40	U	1.30	7.40	ug/Kg
106-93-4	1,2-Dibromoethane	7.40	U	1.20	7.40	ug/Kg
127-18-4	Tetrachloroethene	7.40	U	1.10	7.40	ug/Kg
108-90-7	Chlorobenzene	7.40	U	0.93	7.40	ug/Kg
100-41-4	Ethyl Benzene	7.40	U	0.99	7.40	ug/Kg
1330-20-7	Total Xylenes	22.2	U	3.20	22.2	ug/Kg
179601-23-1	m/p-Xylenes	14.8	U	2.10	14.8	ug/Kg
95-47-6	o-Xylene	7.40	U	1.10	7.40	ug/Kg
100-42-5	Styrene	7.40	U	1.00	7.40	ug/Kg
75-25-2	Bromoform	7.40	U	1.40	7.40	ug/Kg
98-82-8	Isopropylbenzene	7.40	U	1.10	7.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	7.40	U	1.60	7.40	ug/Kg
103-65-1	n-propylbenzene	7.40	U	1.00	7.40	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	7.40	U	0.95	7.40	ug/Kg
98-06-6	tert-Butylbenzene	7.40	U	1.10	7.40	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	7.40	U	0.99	7.40	ug/Kg
135-98-8	sec-Butylbenzene	7.40	U	1.10	7.40	ug/Kg
99-87-6	p-Isopropyltoluene	7.40	U	1.10	7.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	7.40	U	1.00	7.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	7.40	U	0.89	7.40	ug/Kg
104-51-8	n-Butylbenzene	7.40	U	1.00	7.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	7.40	U	0.89	7.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	7.40	U	1.80	7.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	7.40	U	0.91	7.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	7.40	U	0.93	7.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.2		50 - 163	92%	SPK: 50

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Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-01	Matrix:	SOIL
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Sample Wt/Vol:	3.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014677.D	1		07/17/23 17:07	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	47.6		54 - 147	95%	SPK: 50
2037-26-5	Toluene-d8	49.9		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		30 - 143	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	221000	7.789			
540-36-3	1,4-Difluorobenzene	377000	8.685			
3114-55-4	Chlorobenzene-d5	333000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	150000	13.422			
TENTATIVE IDENTIFIED COMPOUNDS						
000582-16-1	Naphthalene, 2,7-dimethyl-	20.8	J		12.4	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	49.1	J		12.9	ug/Kg
000571-61-9	Naphthalene, 1,5-dimethyl-	25.0	J		13.1	ug/Kg
000575-37-1	Naphthalene, 1,7-dimethyl-	12.1	J		13.6	ug/Kg
000083-32-9	Acenaphthene	19.8	J		14.7	ug/Kg
002245-38-7	Naphthalene, 1,6,7-trimethyl-	9.60	J		15.4	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Time: Jul 18 06:12:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

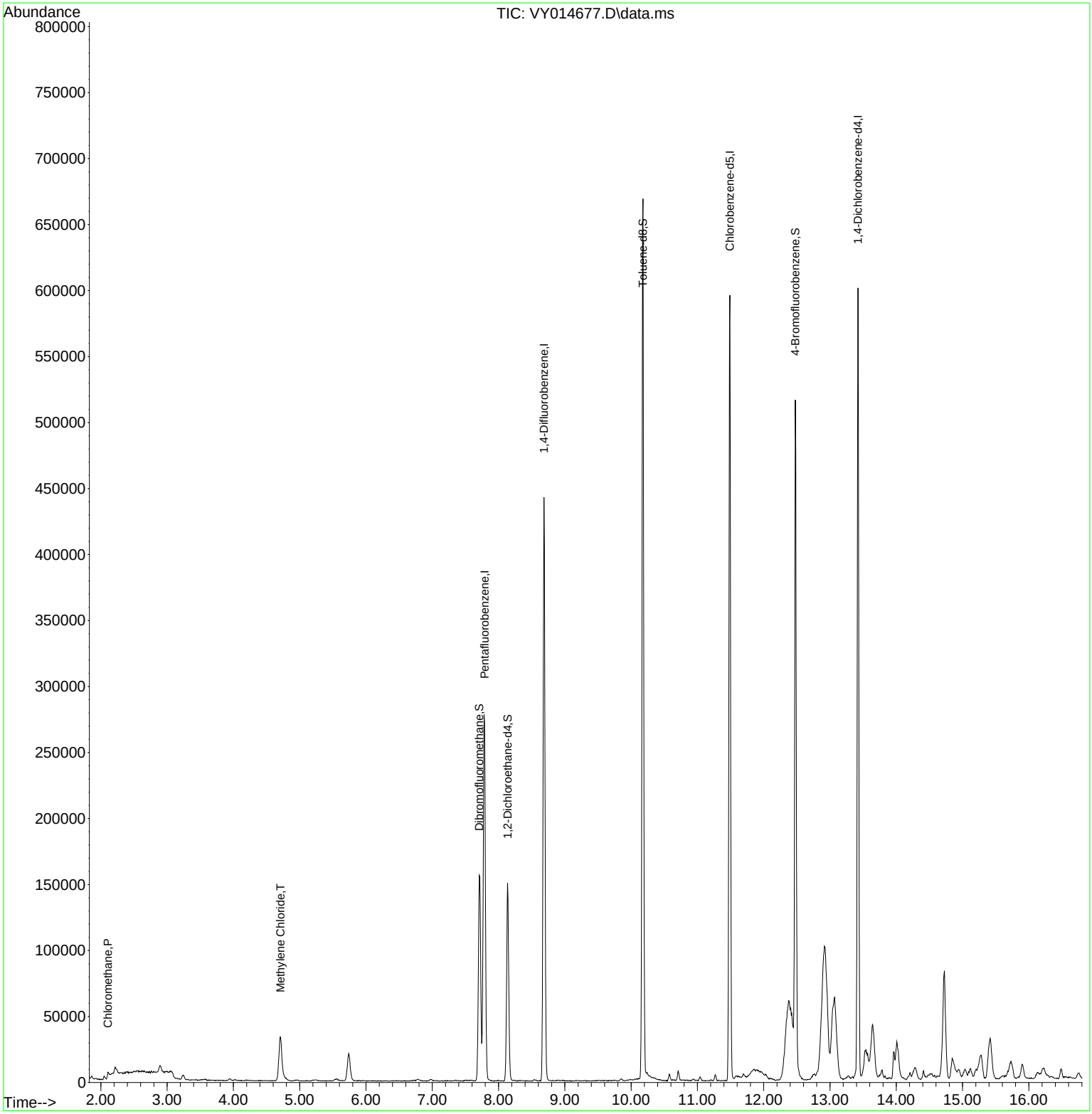
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	221348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	376974	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	332775	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	150203	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	116417	46.154	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	92.300%		
35) Dibromofluoromethane	7.710	113	114302	47.631	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.260%		
50) Toluene-d8	10.179	98	441837	49.940	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	99.880%		
62) 4-Bromofluorobenzene	12.477	95	154043	45.408	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	90.820%		
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2224	1.097	ug/l #	87
20) Methylene Chloride	4.710	84	26153	6.389	ug/l	89

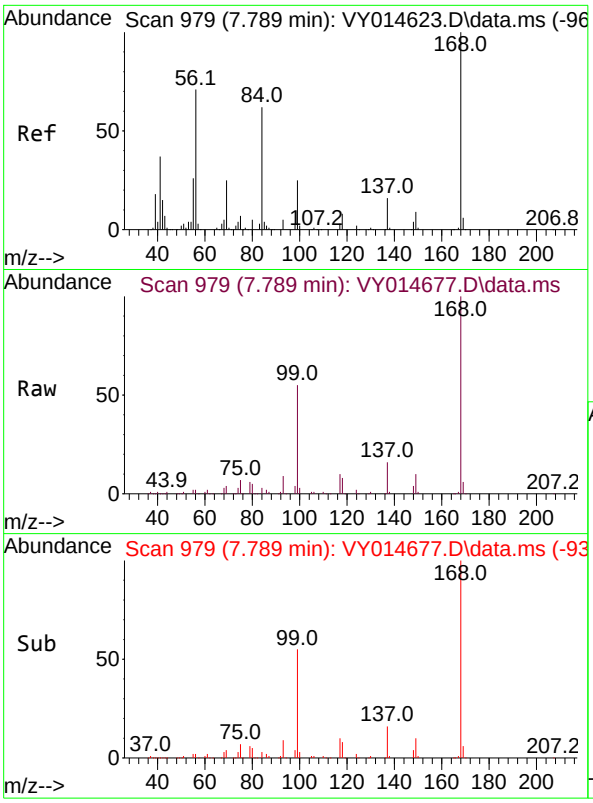
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Time: Jul 18 06:12:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



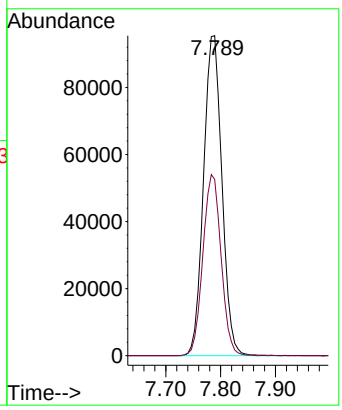


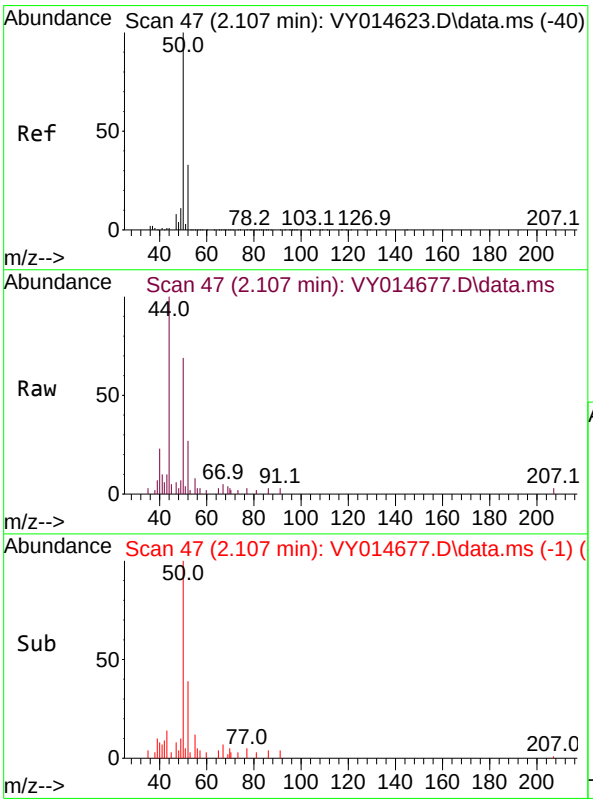
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Tgt Ion:168 Resp: 221348

Ion	Ratio	Lower	Upper
168	100		
99	55.1	43.4	65.0

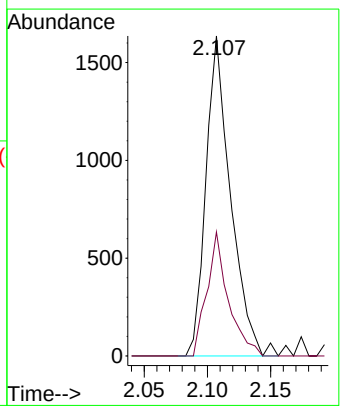


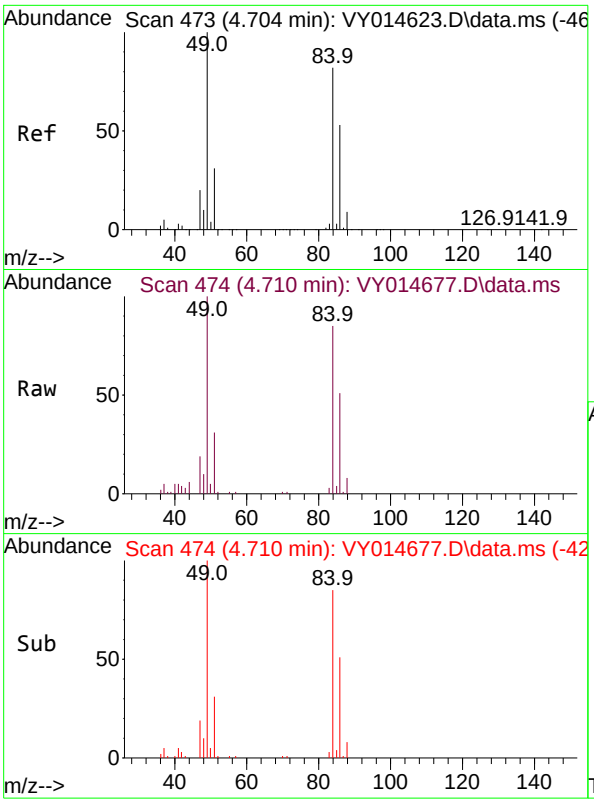


#3
Chloromethane
Concen: 1.097 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Tgt Ion: 50 Resp: 2224

Ion	Ratio	Lower	Upper
50	100		
52	38.8	25.4	38.2#



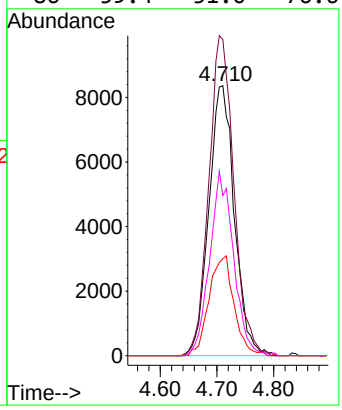


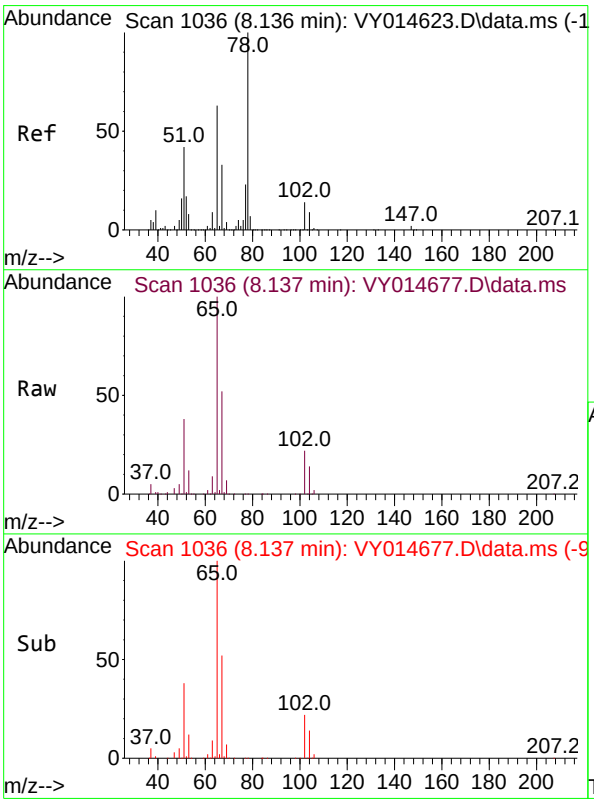
#20
Methylene Chloride
Concen: 6.389 ug/l
RT: 4.710 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Tgt Ion: 84 Resp: 26153

Ion	Ratio	Lower	Upper
84	100		
49	117.1	106.9	160.3
51	35.9	33.2	49.8
86	59.4	51.0	76.6

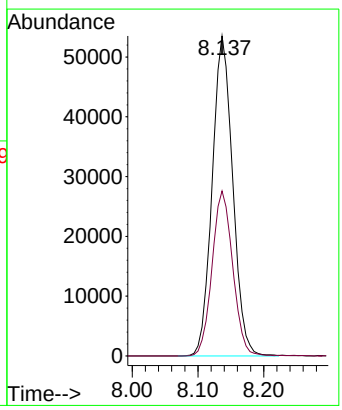


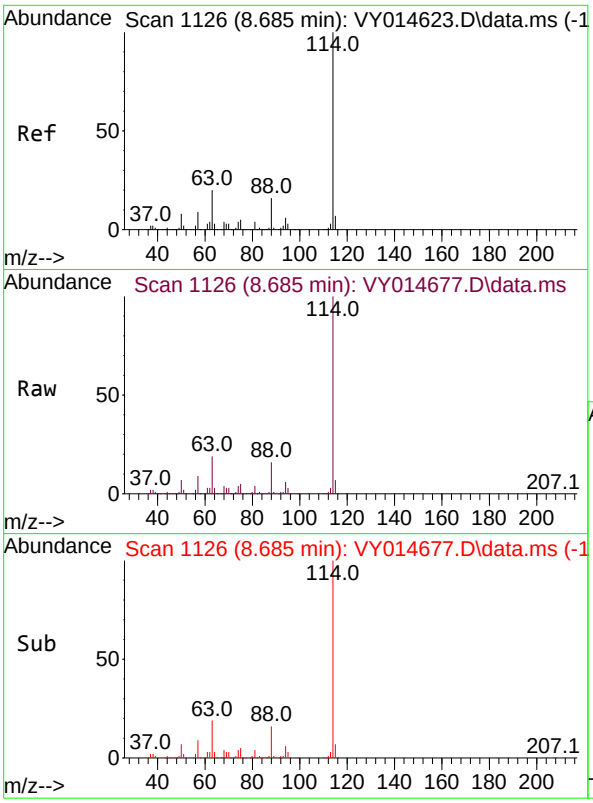


#33
1,2-Dichloroethane-d4
Concen: 46.154 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Tgt Ion: 65 Resp: 116417

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	101.8



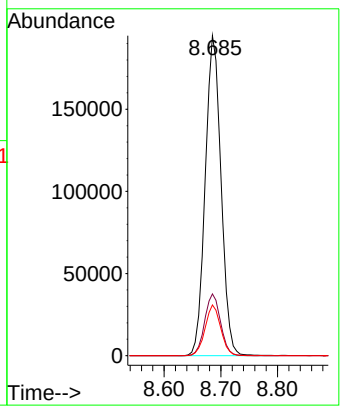


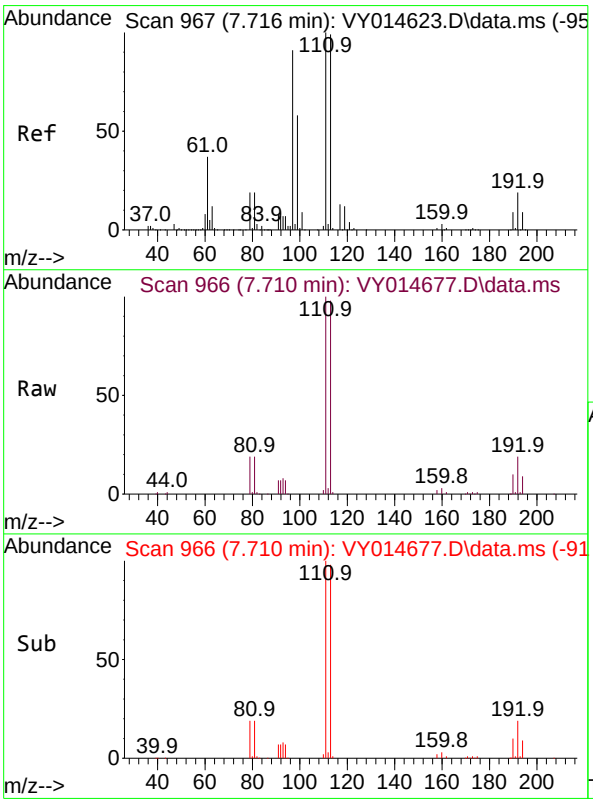
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Tgt Ion:114 Resp: 376974

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.4
88	15.8	0.0	30.6

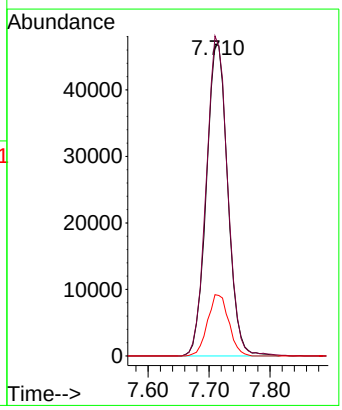


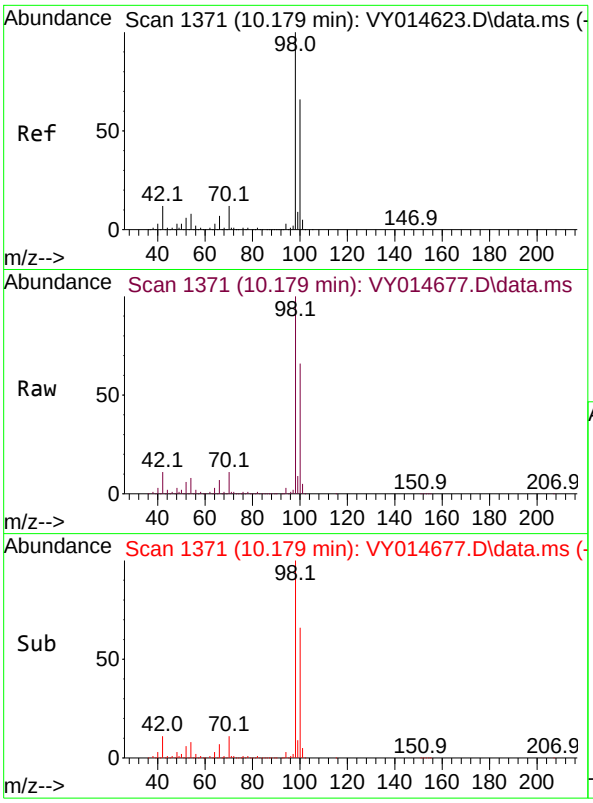


#35
Dibromofluoromethane
Concen: 47.631 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Tgt Ion:113 Resp: 114302

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.3	121.9
192	19.5	16.9	25.3



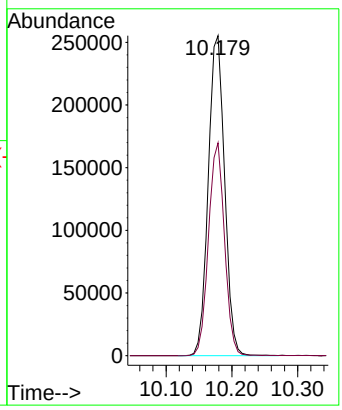


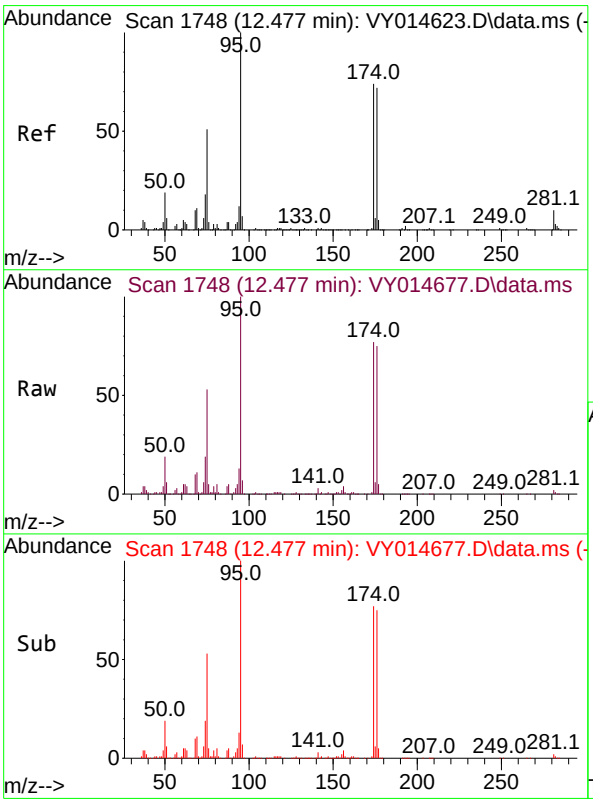
#50
Toluene-d8
Concen: 49.940 ug/l
RT: 10.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Tgt Ion: 98 Resp: 441837

Ion	Ratio	Lower	Upper
98	100		
100	65.1	50.1	75.1

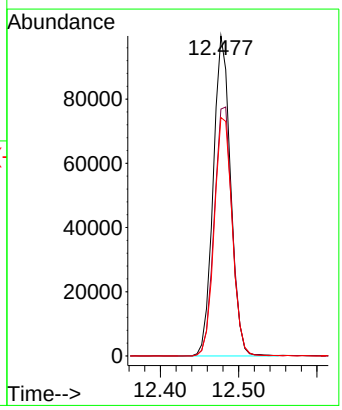


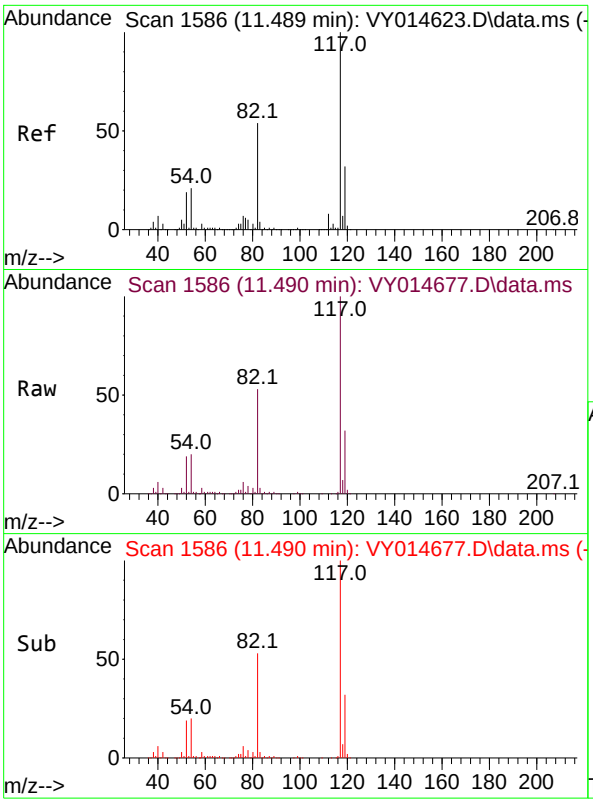


#62
4-Bromofluorobenzene
Concen: 45.408 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Tgt Ion: 95 Resp: 154043

Ion	Ratio	Lower	Upper
95	100		
174	80.4	0.0	178.2
176	77.1	0.0	173.8



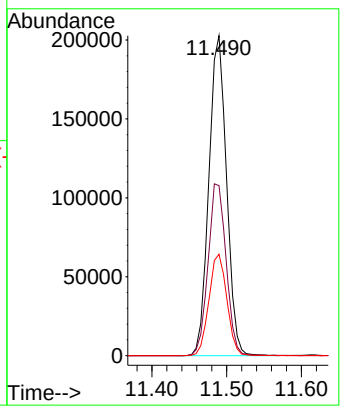


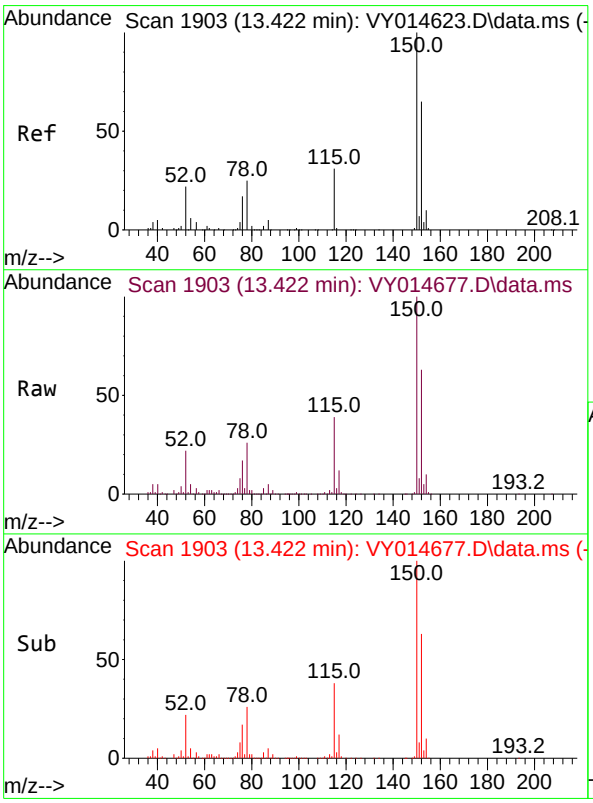
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Tgt Ion:117 Resp: 332775

Ion	Ratio	Lower	Upper
117	100		
82	53.2	43.4	65.0
119	31.7	26.3	39.5

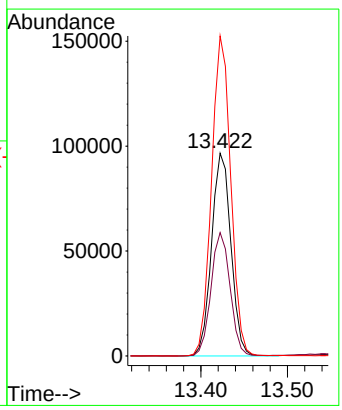




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014677.D
Acq: 17 Jul 2023 17:07

Tgt Ion:152 Resp: 150203

Ion	Ratio	Lower	Upper
152	100		
115	60.1	28.8	86.5
150	156.5	0.0	348.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014677.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.710	461	474	492	rBV3	33224	113890	9.76%	1.315%
2	5.741	629	643	655	rBV2	20587	63163	5.41%	0.729%
3	7.710	957	966	972	rBV	155635	376623	32.26%	4.349%
4	7.783	972	978	995	rVB	277638	645287	55.27%	7.452%
5	8.137	1028	1036	1049	rBV	149902	328158	28.11%	3.790%
6	8.685	1118	1126	1137	rBV	442240	857128	73.42%	9.899%
7	10.179	1362	1371	1380	rBV	666739	1167422	100.00%	13.482%
8	10.709	1453	1458	1463	rBV3	7108	12101	1.04%	0.140%
9	11.490	1578	1586	1597	rBV	595186	999541	85.62%	11.543%
10	11.849	1633	1645	1649	rBV6	4685	17857	1.53%	0.206%
11	12.380	1709	1732	1735	rBV3	59993	280850	24.06%	3.243%
12	12.477	1743	1748	1764	rVB	514350	868568	74.40%	10.031%
13	12.916	1798	1820	1834	rVV3	100637	610322	52.28%	7.048%
14	13.069	1834	1845	1864	rVB4	61528	311283	26.66%	3.595%
15	13.422	1892	1903	1911	rBV	598684	921873	78.97%	10.646%
16	13.532	1911	1921	1922	rBV3	19487	38056	3.26%	0.439%
17	13.642	1931	1939	1953	rVB2	39762	150541	12.90%	1.739%
18	13.782	1953	1962	1967	rVB9	5726	13252	1.14%	0.153%
19	13.959	1985	1991	1995	rBV2	20606	42559	3.65%	0.491%
20	14.007	1995	1999	2013	rVB2	27678	82325	7.05%	0.951%
21	14.209	2022	2032	2036	rBV6	5410	14194	1.22%	0.164%
22	14.282	2036	2044	2055	rVB6	8717	32073	2.75%	0.370%
23	14.410	2058	2065	2069	rBV7	6548	12233	1.05%	0.141%
24	14.727	2105	2117	2128	rVB	81343	246241	21.09%	2.844%
25	14.843	2128	2136	2148	rVV4	15121	58649	5.02%	0.677%
26	14.940	2148	2152	2159	rVV5	6851	19225	1.65%	0.222%
27	15.038	2159	2168	2174	rVV4	7092	23913	2.05%	0.276%
28	15.123	2178	2182	2187	rVV5	7578	17483	1.50%	0.202%
29	15.202	2189	2195	2197	rVV4	7107	15823	1.36%	0.183%
30	15.282	2197	2208	2216	rVV9	17800	72765	6.23%	0.840%
31	15.416	2219	2230	2244	rVB6	30601	119645	10.25%	1.382%
32	15.733	2269	2282	2291	rVB5	12462	49794	4.27%	0.575%
33	15.897	2302	2309	2321	rVB4	10451	30052	2.57%	0.347%
34	16.227	2356	2363	2371	rVB8	5475	17375	1.49%	0.201%
35	16.483	2399	2405	2411	rBV2	7565	16807	1.44%	0.194%
36	16.757	2440	2450	2454	rBV10	4176	12022	1.03%	0.139%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Sum of corrected areas: 8659093

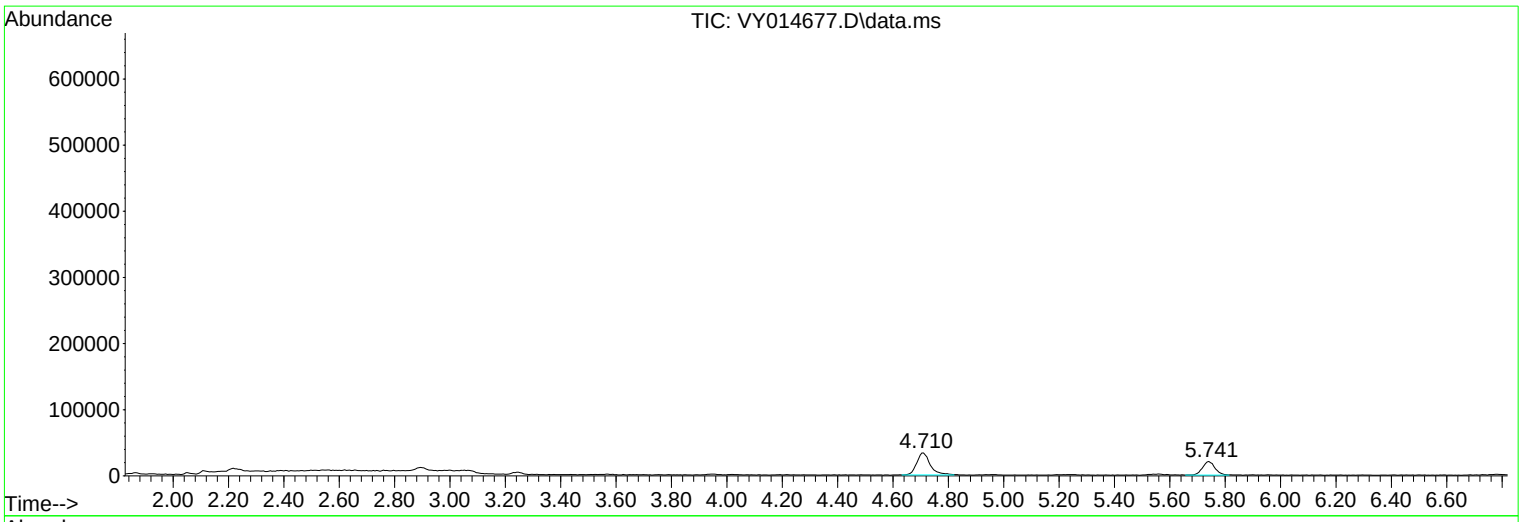
Sample Results: **VY014677.D**

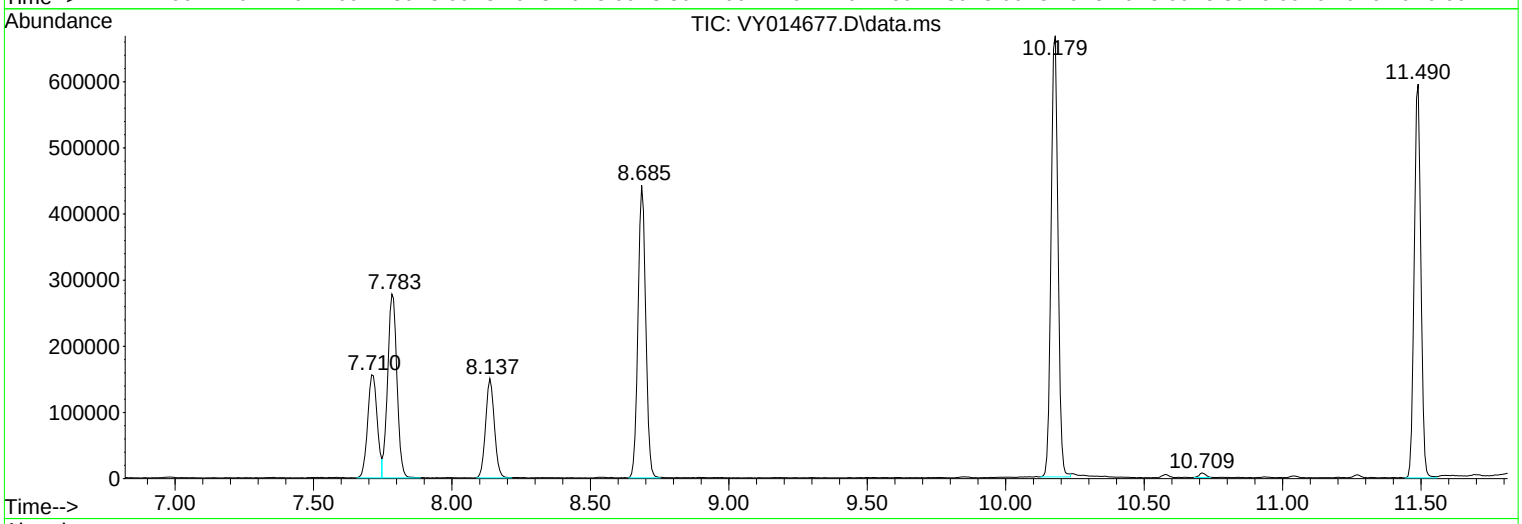
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Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

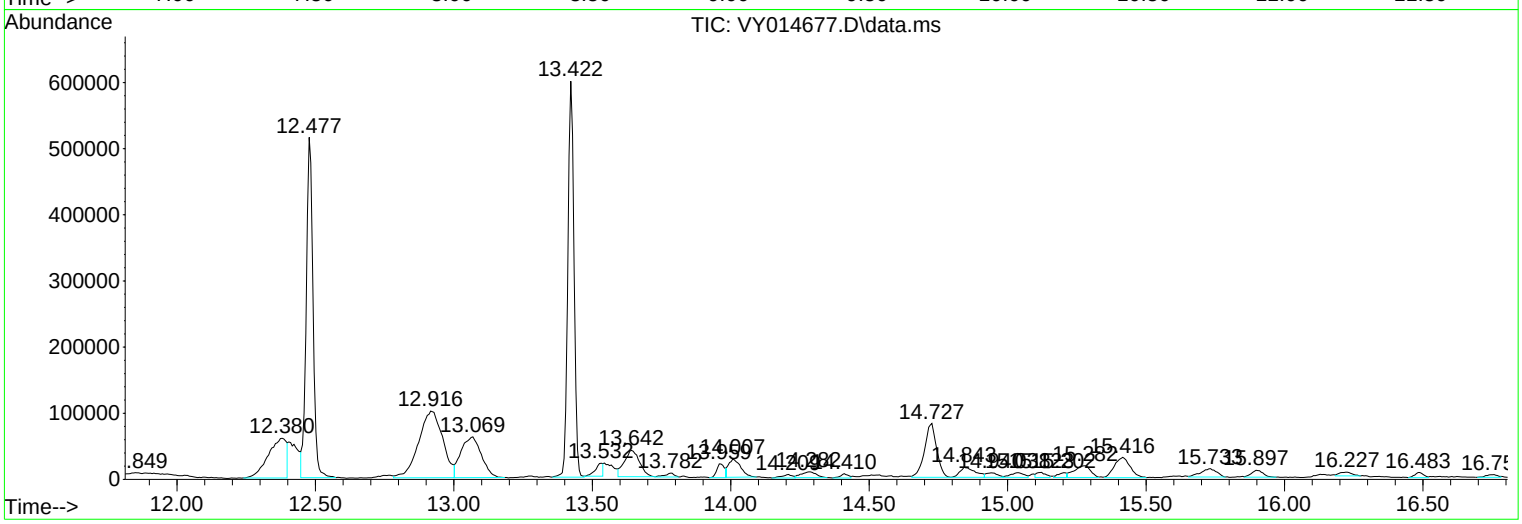
Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

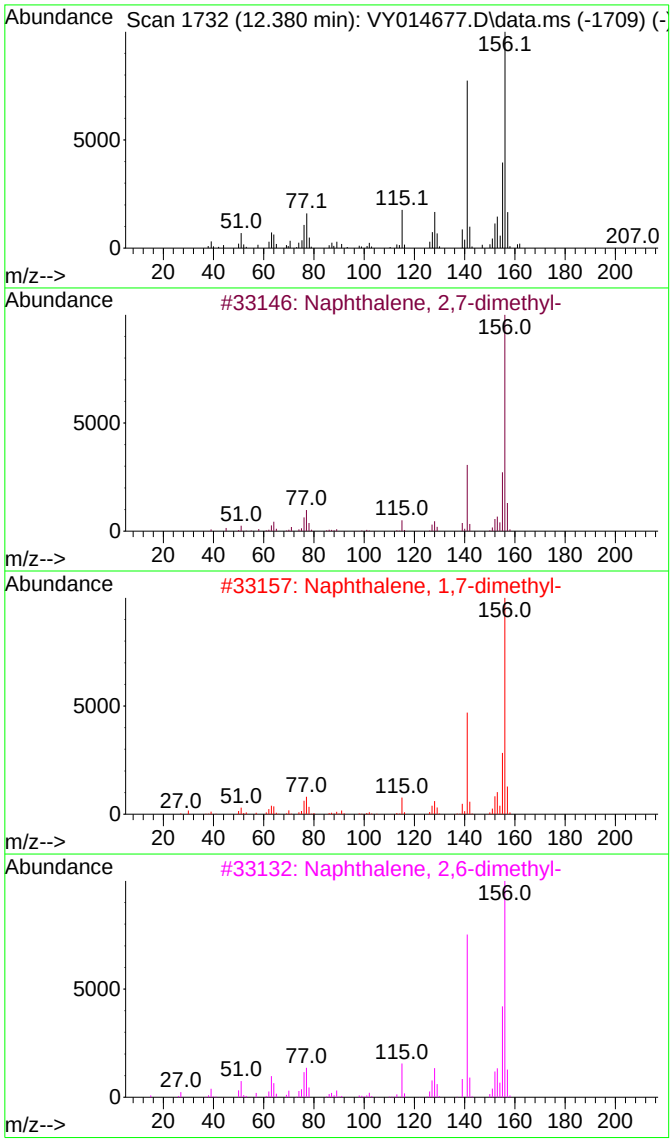
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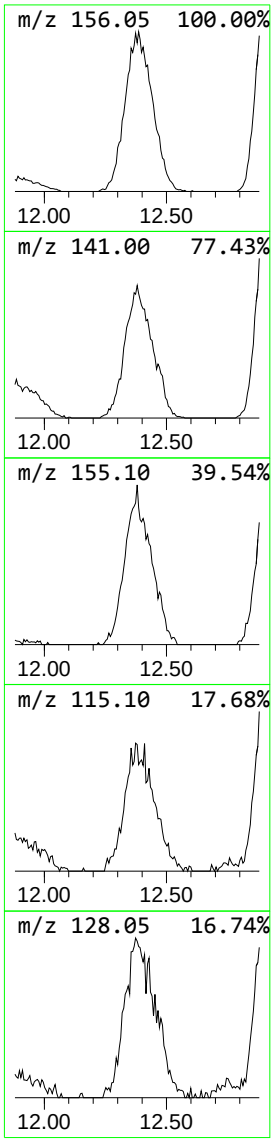
****

Peak Number 1 Naphthalene, 2,7-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.380	14.05 ug/l	280850	Chlorobenzene-d5	11.490

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

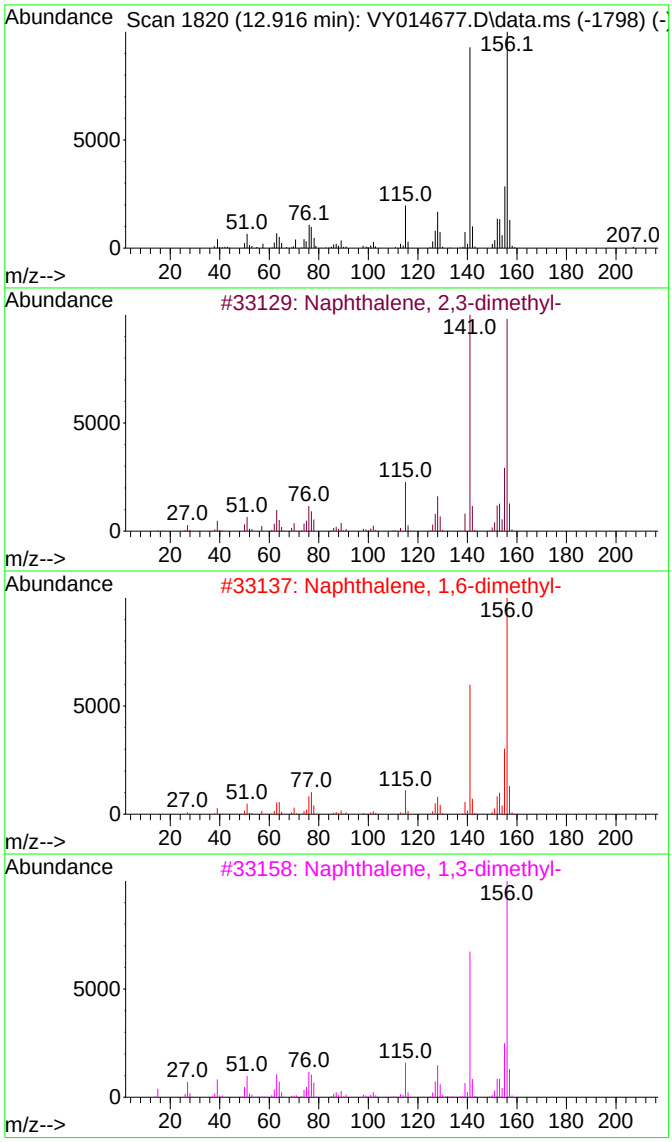
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Quant Title : SW846 8260

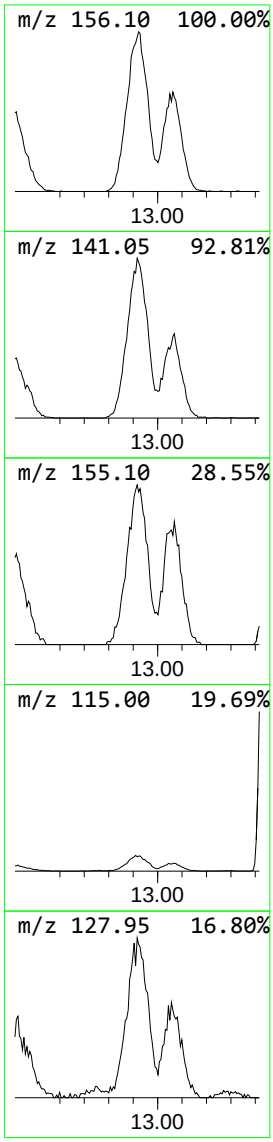
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.916	33.10 ug/l	610322	1,4-Dichlorobenzene-d4	13.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

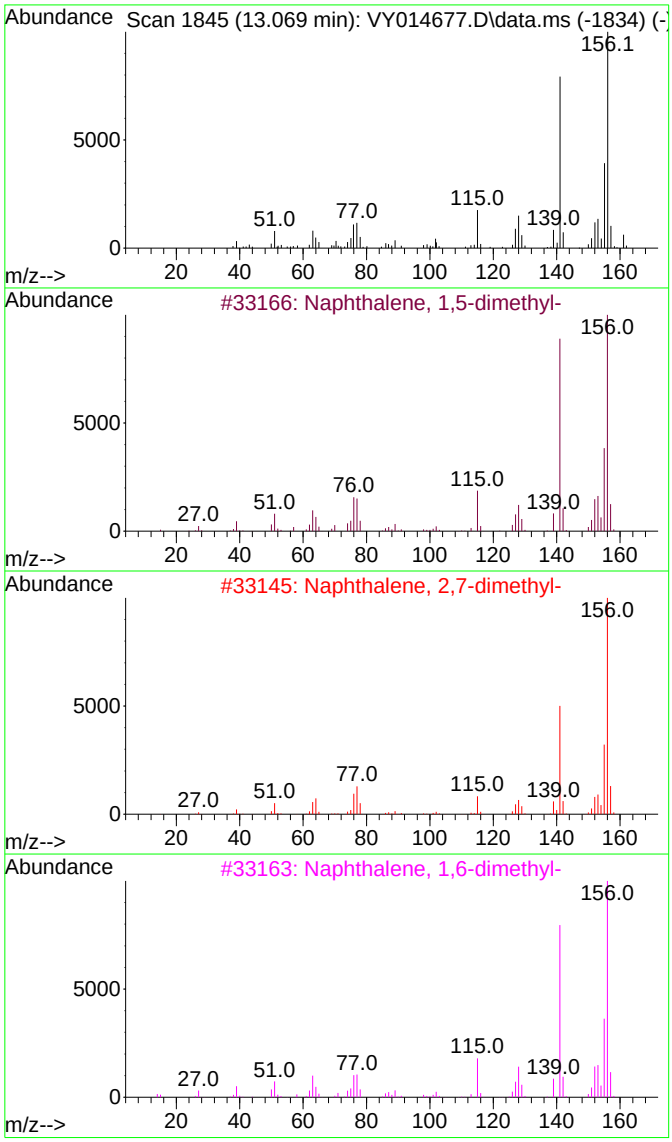
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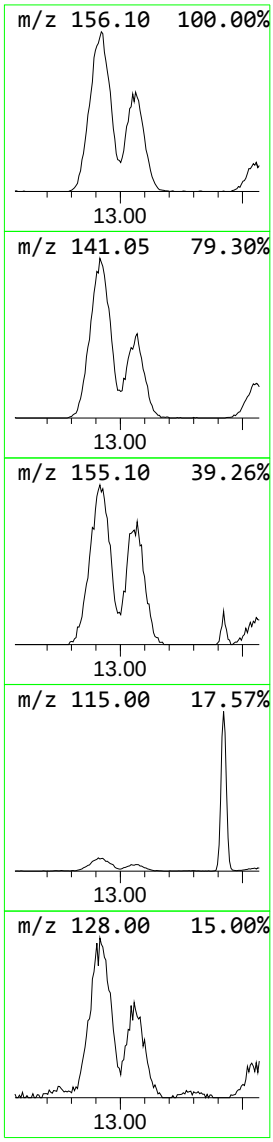
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Peak Number 3 Naphthalene, 1,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.069	16.88 ug/l	311283	1,4-Dichlorobenzene-d4	13.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

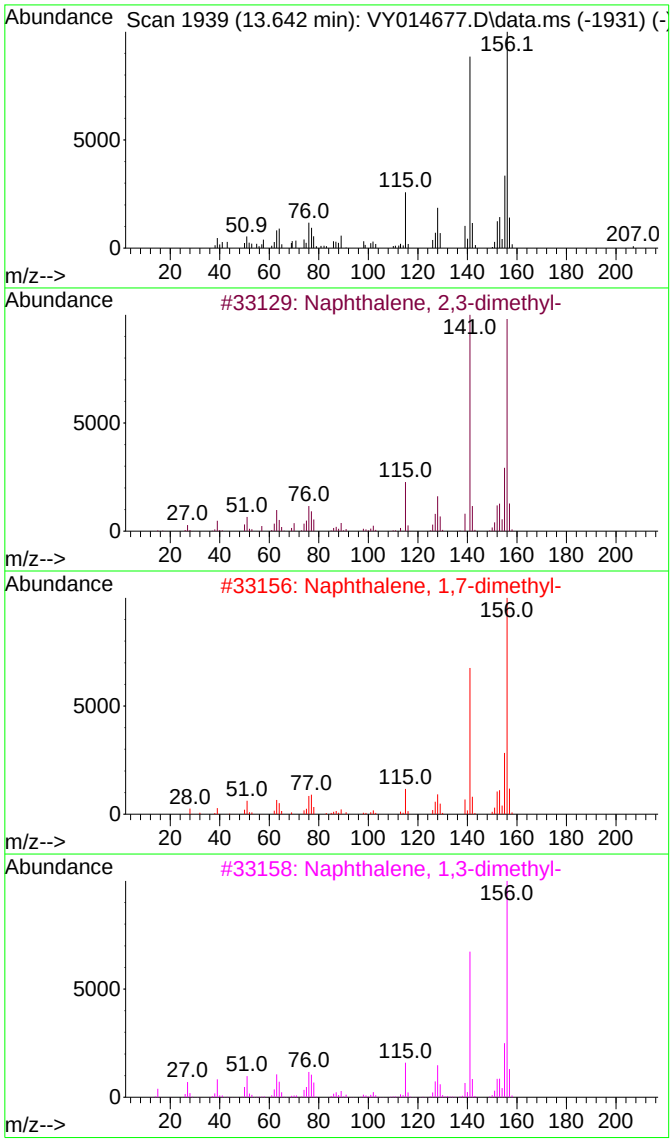
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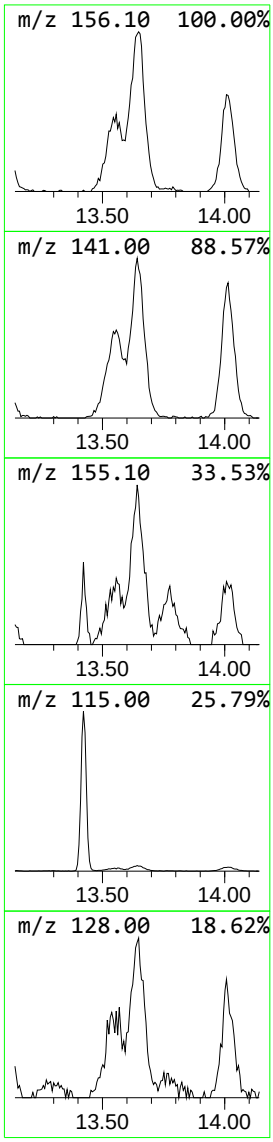
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Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.642	8.16 ug/l	150541	1,4-Dichlorobenzene-d4	13.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

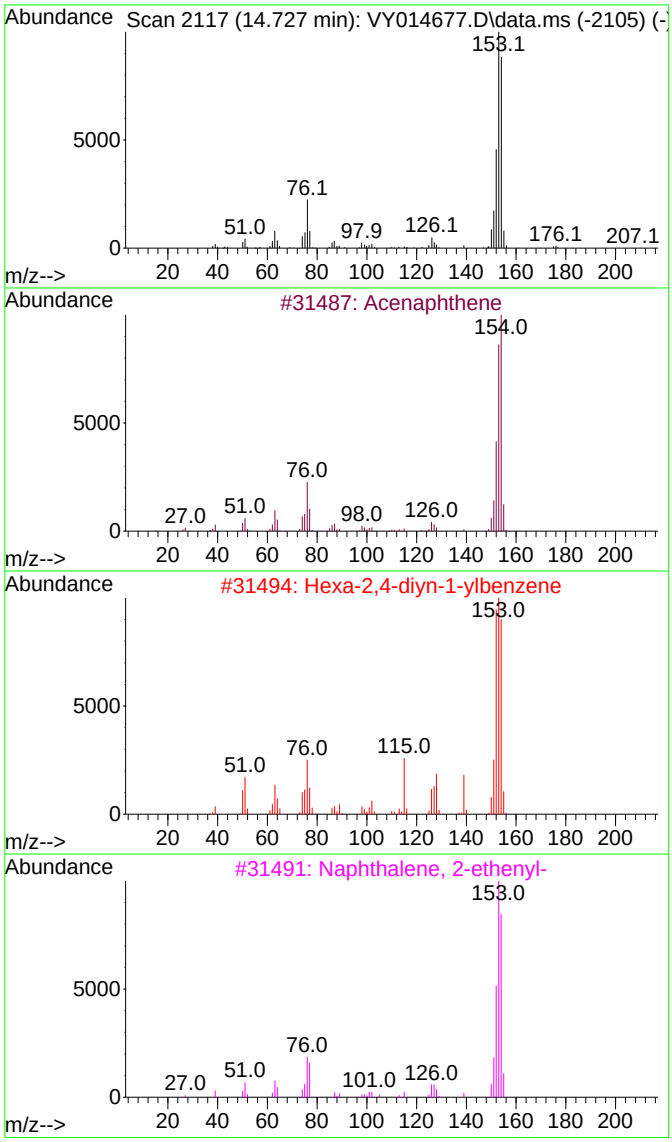
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TIC Integration Parameters: LSCINT.P

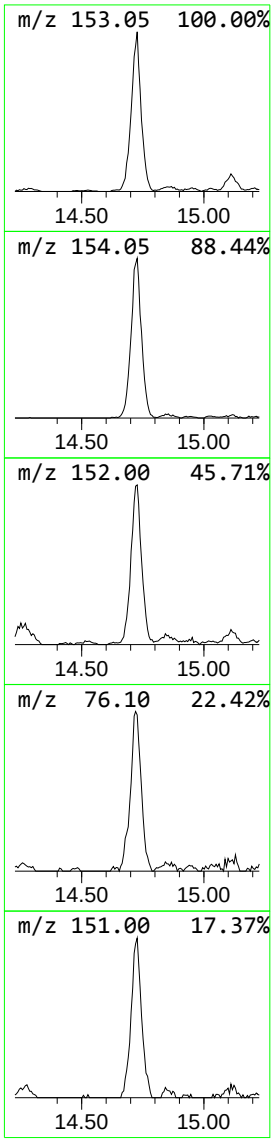
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Peak Number 5 Acenaphthene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.727	13.36 ug/l	246241	1,4-Dichlorobenzene-d4	13.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acenaphthene	154	C12H10	000083-32-9	90
2	Hexa-2,4-diyn-1-ylbenzene	154	C12H10	000520-74-1	64
3	Naphthalene, 2-ethenyl-	154	C12H10	000827-54-3	59
4	3-Fluoro-para-anisaldehyde	154	C8H7FO2	000351-54-2	50
5	2,4,6-Trihydroxybenzaldehyde	154	C7H6O4	000487-70-7	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

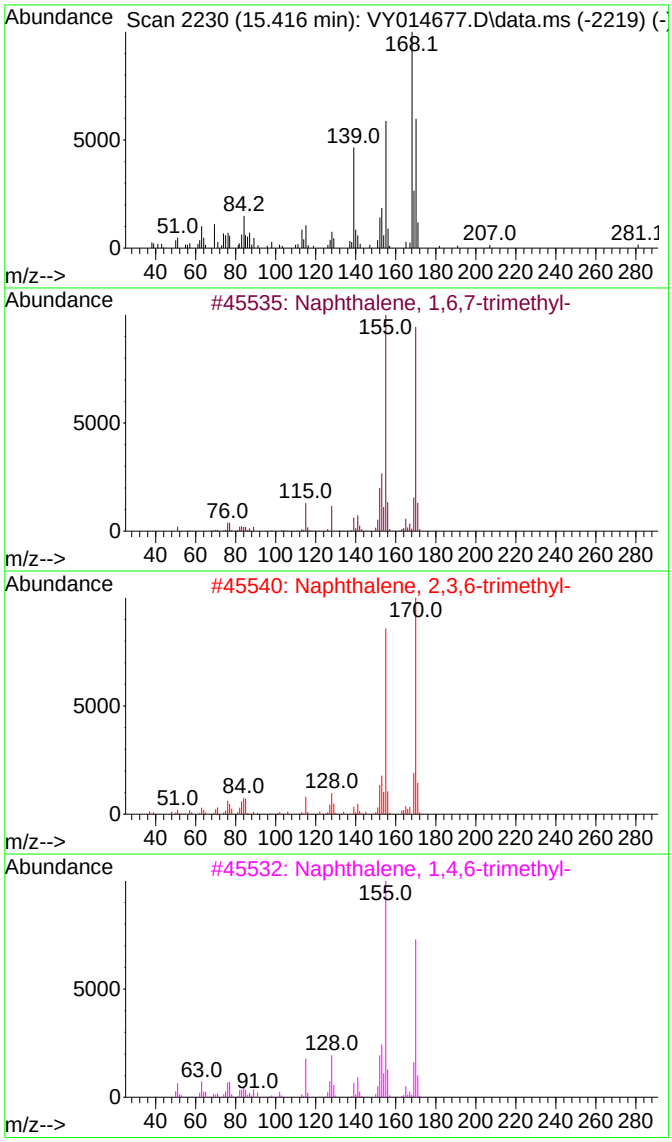
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

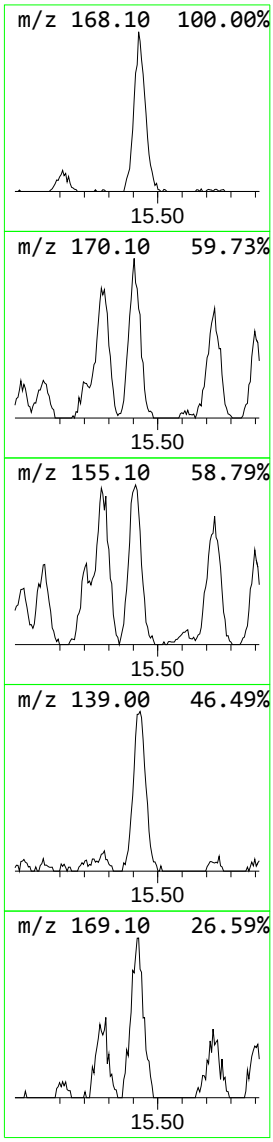
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Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.416	6.49 ug/l	119645	1,4-Dichlorobenzene-d4	13.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	89
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	86
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	50
4	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	46
5	Dibenzofuran	168	C12H8O	000132-64-9	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014677.D
Acq On : 17 Jul 2023 17:07
Operator : SY/MD
Sample : 03631-01
Misc : 3.95g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 2,...	12.380	14.1	ug/l	280850	3	11.490	999541	50.0
Naphthalene, 2,...	12.916	33.1	ug/l	610322	4	13.422	921873	50.0
Naphthalene, 1,...	13.069	16.9	ug/l	311283	4	13.422	921873	50.0
Naphthalene, 1,...	13.642	8.2	ug/l	150541	4	13.422	921873	50.0
Acenaphthene	14.727	13.4	ug/l	246241	4	13.422	921873	50.0
Naphthalene, 1,...	15.416	6.5	ug/l	119645	4	13.422	921873	50.0

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Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-04(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.9
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014678.D	1		07/17/23 17:30	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.70	U	1.50	4.70	ug/Kg
74-87-3	Chloromethane	1.30	J	0.86	4.70	ug/Kg
75-01-4	Vinyl Chloride	4.70	U	0.87	4.70	ug/Kg
74-83-9	Bromomethane	4.70	U	1.10	4.70	ug/Kg
75-00-3	Chloroethane	4.70	U	0.83	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	4.70	U	1.00	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.70	U	0.68	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	4.70	U	0.74	4.70	ug/Kg
67-64-1	Acetone	23.5	U	8.80	23.5	ug/Kg
75-15-0	Carbon Disulfide	4.70	U	2.10	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.70	U	0.61	4.70	ug/Kg
79-20-9	Methyl Acetate	4.70	U	1.50	4.70	ug/Kg
75-09-2	Methylene Chloride	9.40	U	5.70	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.70	U	0.69	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	4.70	U	0.68	4.70	ug/Kg
110-82-7	Cyclohexane	4.70	U	0.66	4.70	ug/Kg
78-93-3	2-Butanone	23.5	U	6.80	23.5	ug/Kg
56-23-5	Carbon Tetrachloride	4.70	U	0.73	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.70	U	0.60	4.70	ug/Kg
74-97-5	Bromochloromethane	4.70	U	2.20	4.70	ug/Kg
67-66-3	Chloroform	4.70	U	1.20	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.70	U	0.71	4.70	ug/Kg
108-87-2	Methylcyclohexane	4.70	U	3.20	4.70	ug/Kg
71-43-2	Benzene	4.70	U	0.62	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	4.70	U	0.68	4.70	ug/Kg
79-01-6	Trichloroethene	4.70	U	0.62	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	4.70	U	0.56	4.70	ug/Kg
75-27-4	Bromodichloromethane	4.70	U	0.66	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	23.5	U	4.20	23.5	ug/Kg
108-88-3	Toluene	4.70	U	0.61	4.70	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-04(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.9
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014678.D	1		07/17/23 17:30	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	4.70	U	0.72	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.70	U	0.70	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.70	U	0.81	4.70	ug/Kg
591-78-6	2-Hexanone	23.5	U	5.00	23.5	ug/Kg
124-48-1	Dibromochloromethane	4.70	U	0.80	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	4.70	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	4.70	U	0.72	4.70	ug/Kg
108-90-7	Chlorobenzene	4.70	U	0.59	4.70	ug/Kg
100-41-4	Ethyl Benzene	4.70	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	9.40	U	1.30	9.40	ug/Kg
1330-20-7	Total Xylenes	14.1	U	2.02	14.1	ug/Kg
95-47-6	o-Xylene	4.70	U	0.72	4.70	ug/Kg
100-42-5	Styrene	4.70	U	0.65	4.70	ug/Kg
75-25-2	Bromoform	4.70	U	0.89	4.70	ug/Kg
98-82-8	Isopropylbenzene	4.70	U	0.67	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.70	U	1.00	4.70	ug/Kg
103-65-1	n-propylbenzene	4.70	U	0.66	4.70	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	4.70	U	0.60	4.70	ug/Kg
98-06-6	tert-Butylbenzene	4.70	U	0.72	4.70	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	4.70	U	0.63	4.70	ug/Kg
135-98-8	sec-Butylbenzene	4.70	U	0.72	4.70	ug/Kg
99-87-6	p-Isopropyltoluene	4.70	U	0.70	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.70	U	0.64	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.70	U	0.56	4.70	ug/Kg
104-51-8	n-Butylbenzene	4.70	U	0.64	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.70	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.70	U	1.10	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.70	U	0.57	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.70	U	0.59	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.1		50 - 163	116%	SPK: 50

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-04(2-4)	SDG No.:	O3631
Lab Sample ID:	O3631-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	84.9
Sample Wt/Vol:	6.26 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014678.D	1		07/17/23 17:30	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.2		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	50.8		58 - 134	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		30 - 143	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.789			
540-36-3	1,4-Difluorobenzene	370000	8.685			
3114-55-4	Chlorobenzene-d5	350000	11.489			
3855-82-1	1,4-Dichlorobenzene-d4	172000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Quant Time: Jul 18 06:12:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

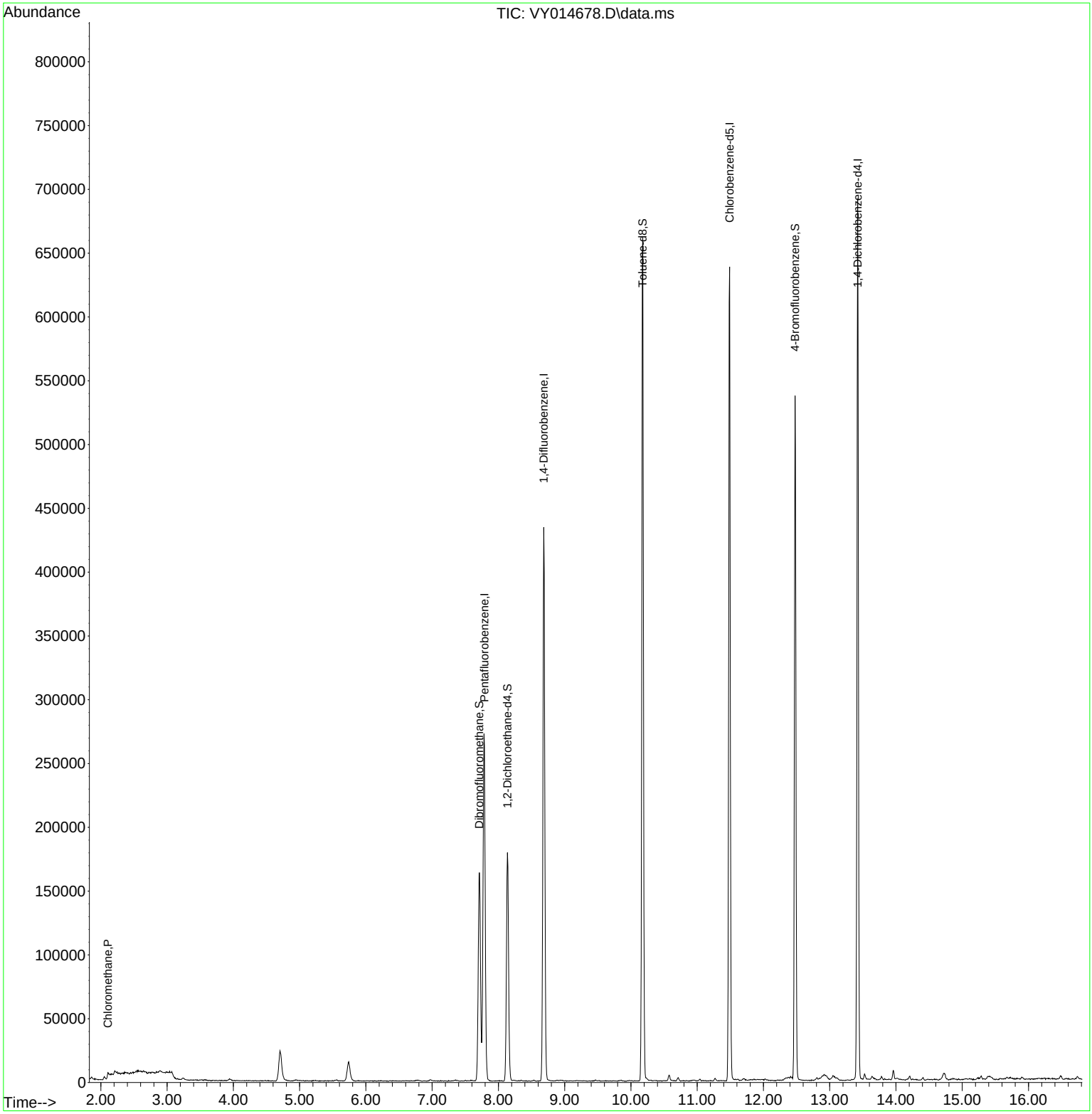
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	211735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	369783	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	350135	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	172137	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	140201	58.107	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.220%			
35) Dibromofluoromethane	7.710	113	118095	50.169	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.340%			
50) Toluene-d8	10.179	98	441186	50.837	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.680%			
62) 4-Bromofluorobenzene	12.477	95	169373	50.898	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.800%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2608	1.345	ug/l	94

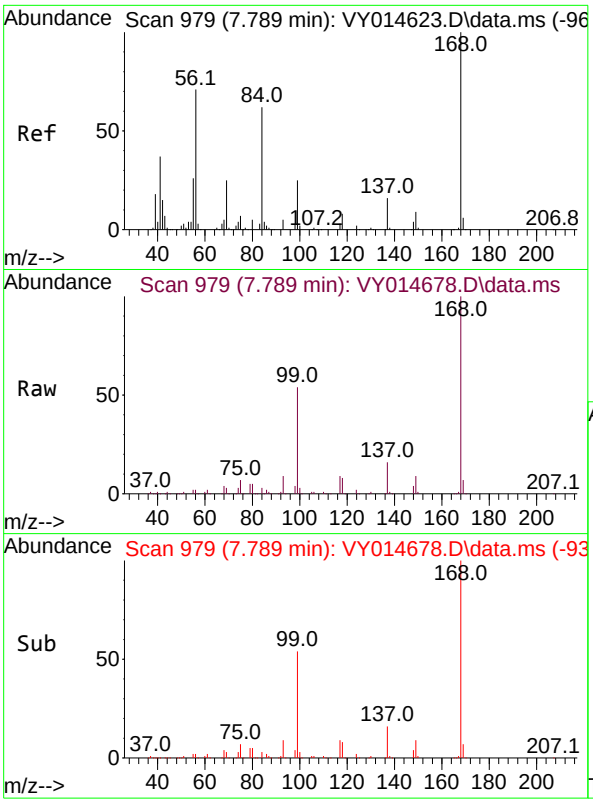
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Quant Time: Jul 18 06:12:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



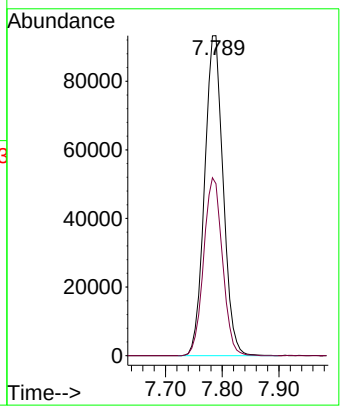


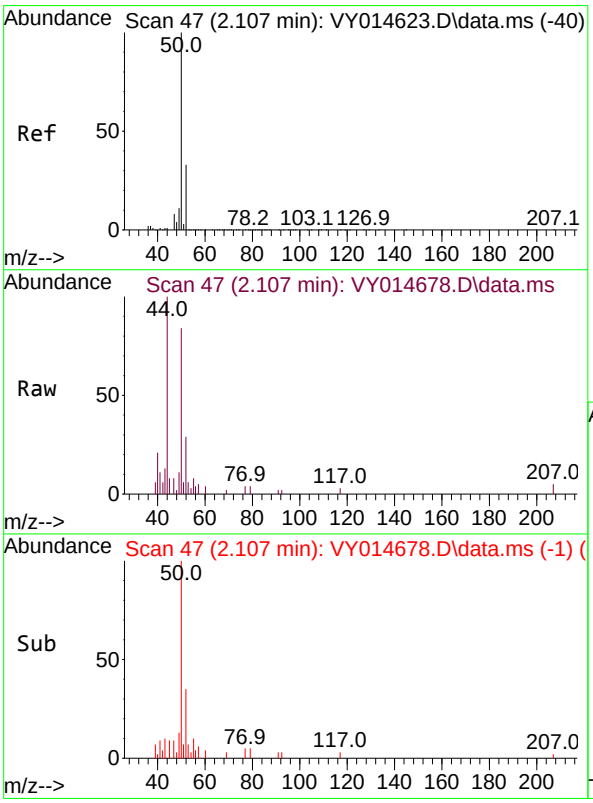
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Tgt Ion:168 Resp: 211735

Ion	Ratio	Lower	Upper
168	100		
99	53.8	43.4	65.0

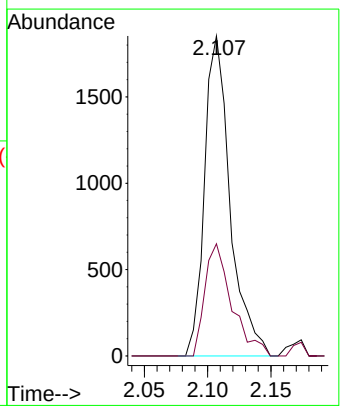


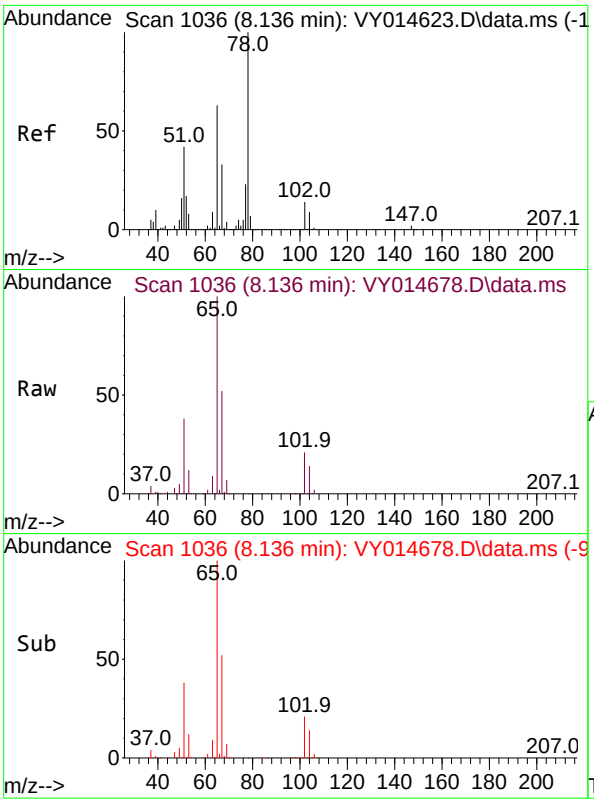


#3
Chloromethane
Concen: 1.345 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Tgt Ion: 50 Resp: 2608

Ion	Ratio	Lower	Upper
50	100		
52	35.0	25.4	38.2



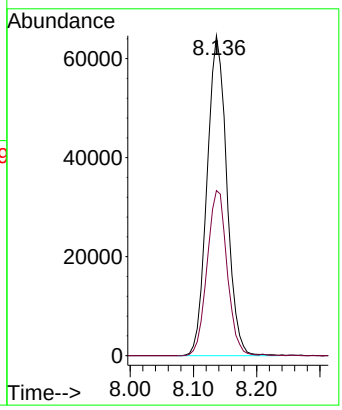


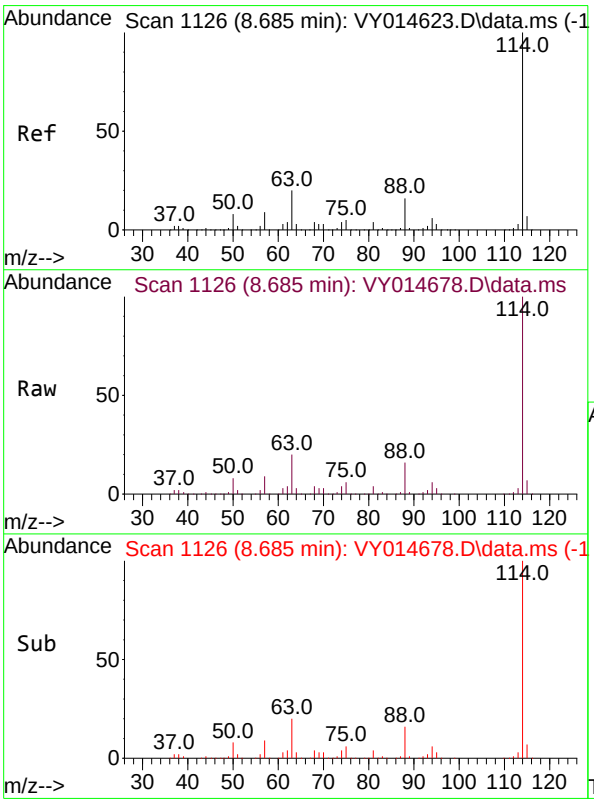
#33
1,2-Dichloroethane-d4
Concen: 58.107 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Tgt Ion: 65 Resp: 140201

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.8

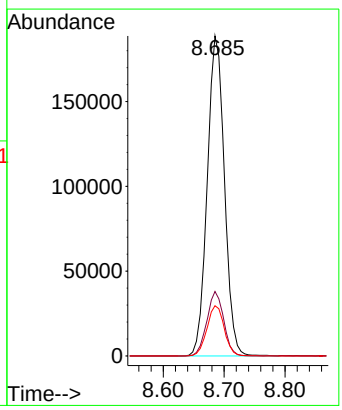


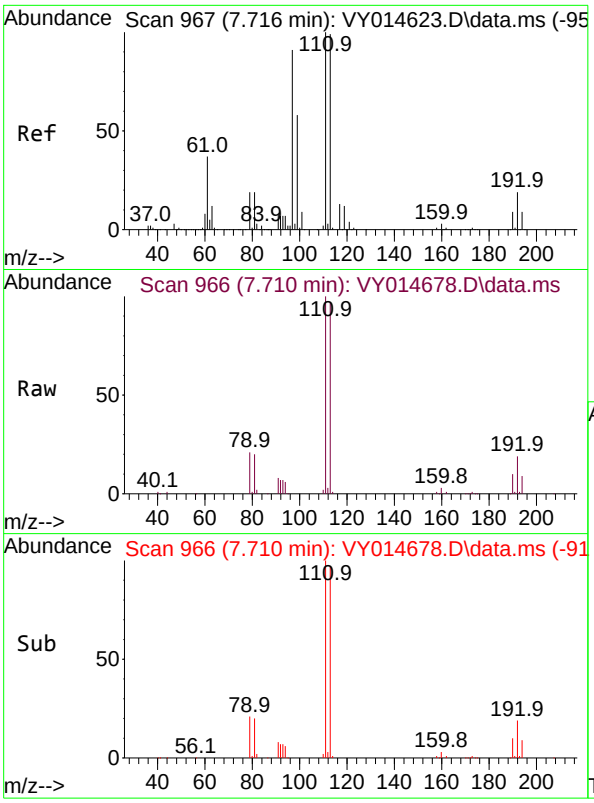


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Tgt Ion:114 Resp: 369783

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	15.7	0.0	30.6



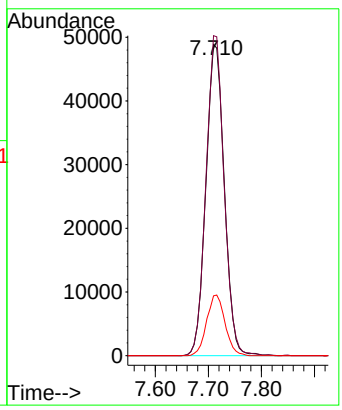


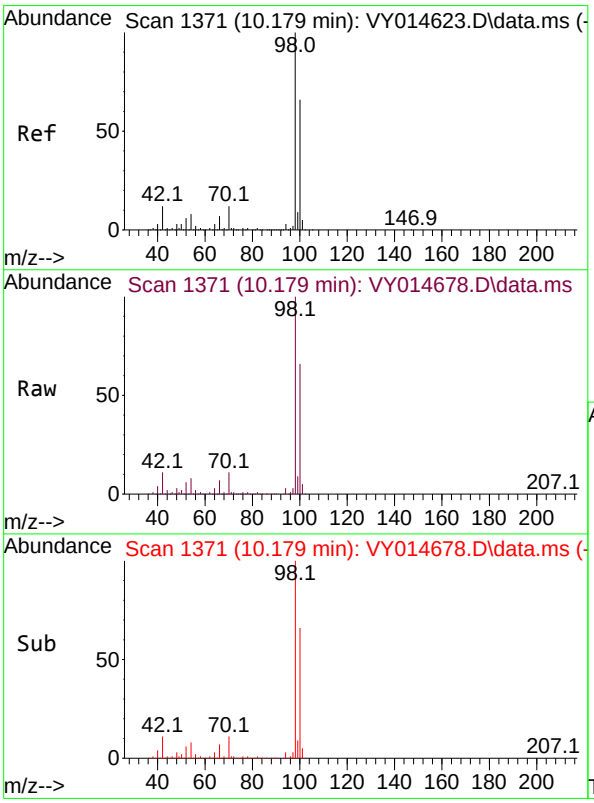
#35
Dibromofluoromethane
Concen: 50.169 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Tgt Ion:113 Resp: 118095

Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.3	121.9
192	19.5	16.9	25.3

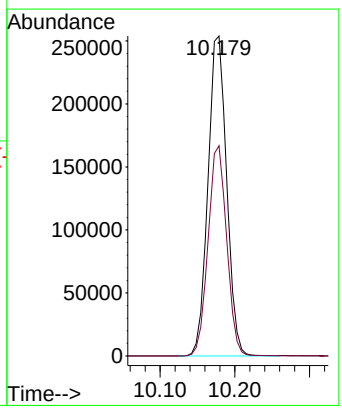


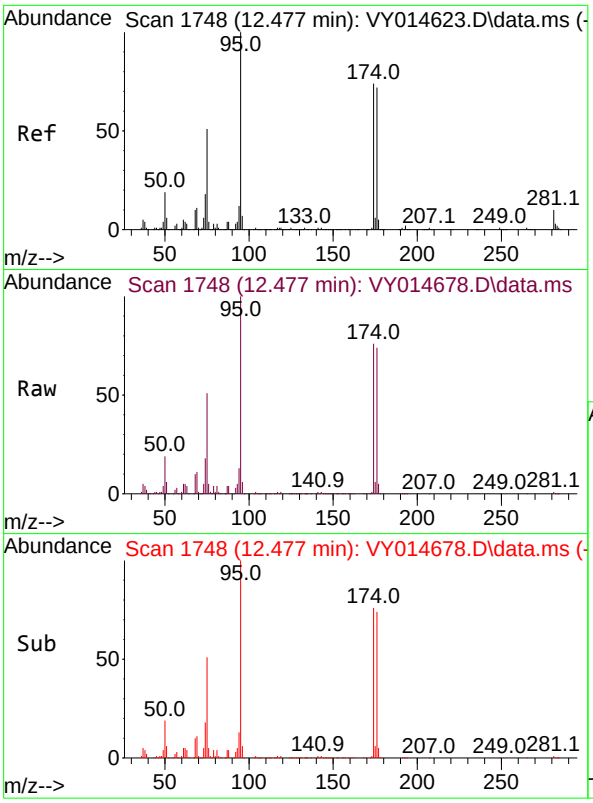


#50
Toluene-d8
Concen: 50.837 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Tgt Ion: 98 Resp: 441186

Ion	Ratio	Lower	Upper
98	100		
100	65.4	50.1	75.1



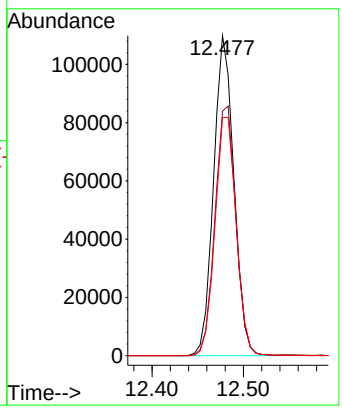


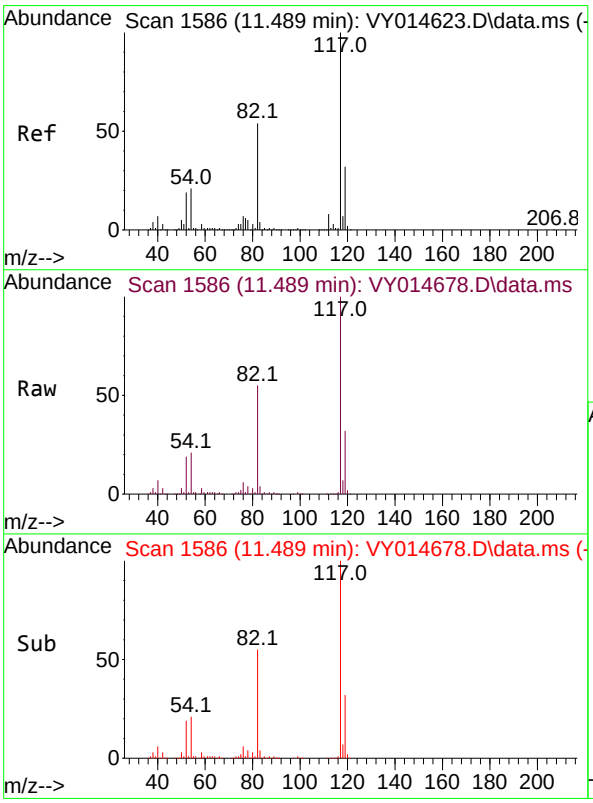
#62
4-Bromofluorobenzene
Concen: 50.898 ug/l
RT: 12.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Tgt Ion: 95 Resp: 169373

Ion	Ratio	Lower	Upper
95	100		
174	80.4	0.0	178.2
176	77.9	0.0	173.8

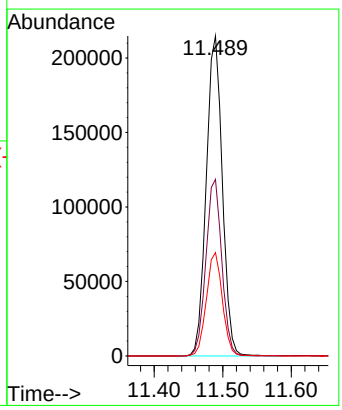


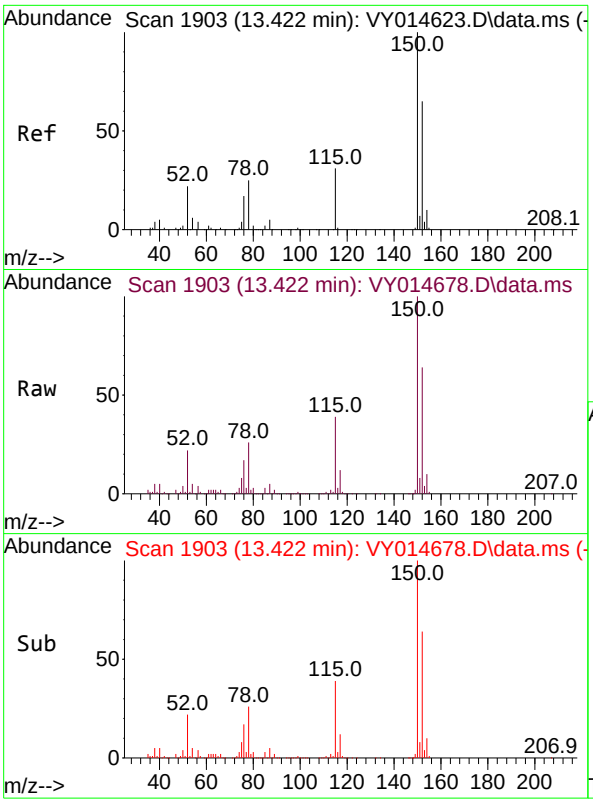


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Tgt Ion:117 Resp: 350135

Ion	Ratio	Lower	Upper
117	100		
82	55.2	43.4	65.0
119	32.3	26.3	39.5



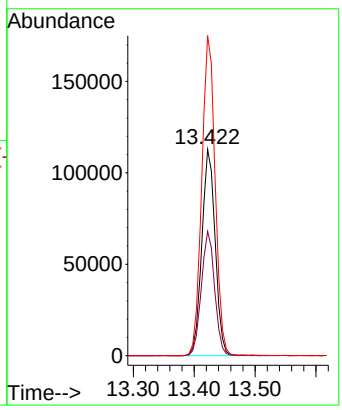


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014678.D
Acq: 17 Jul 2023 17:30

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Tgt Ion:152 Resp: 172137

Ion	Ratio	Lower	Upper
152	100		
115	60.0	28.8	86.5
150	155.7	0.0	348.8



Sample Results: **VY014678.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014678.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.704	462	473	488	rBV	23722	76632	6.61%	1.177%
2	5.740	630	643	656	rBV	15106	47945	4.13%	0.736%
3	7.716	956	967	972	rBV	163066	389986	33.62%	5.990%
4	7.783	972	978	993	rVB	272170	618673	53.33%	9.502%
5	8.136	1025	1036	1049	rBV	179243	394880	34.04%	6.065%
6	8.685	1117	1126	1143	rBV	434004	847331	73.04%	13.014%
7	10.179	1361	1371	1378	rBV	661397	1160047	100.00%	17.817%
8	11.489	1578	1586	1598	rBV	638168	1052927	90.77%	16.171%
9	12.477	1742	1748	1758	rVB	536046	848497	73.14%	13.032%
10	13.422	1893	1903	1911	rBV	690287	1046550	90.22%	16.073%
11	13.958	1985	1991	1996	rBV	7436	12901	1.11%	0.198%
12	14.727	2107	2117	2123	rBV5	4978	14695	1.27%	0.226%

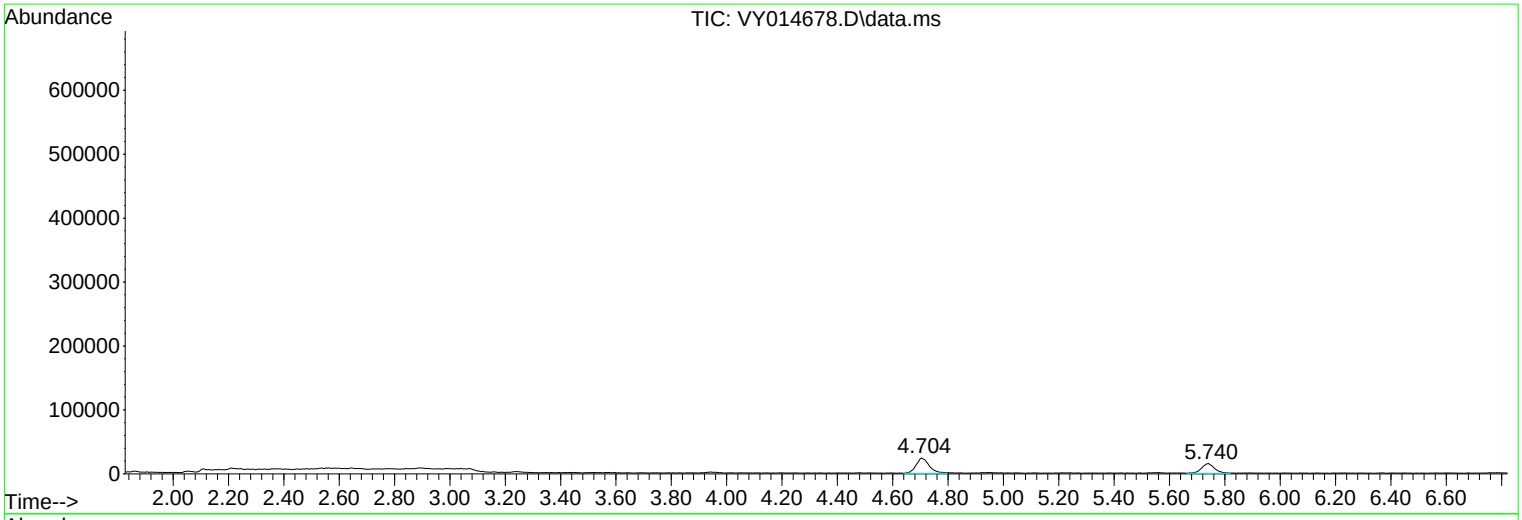
Sum of corrected areas: 6511064

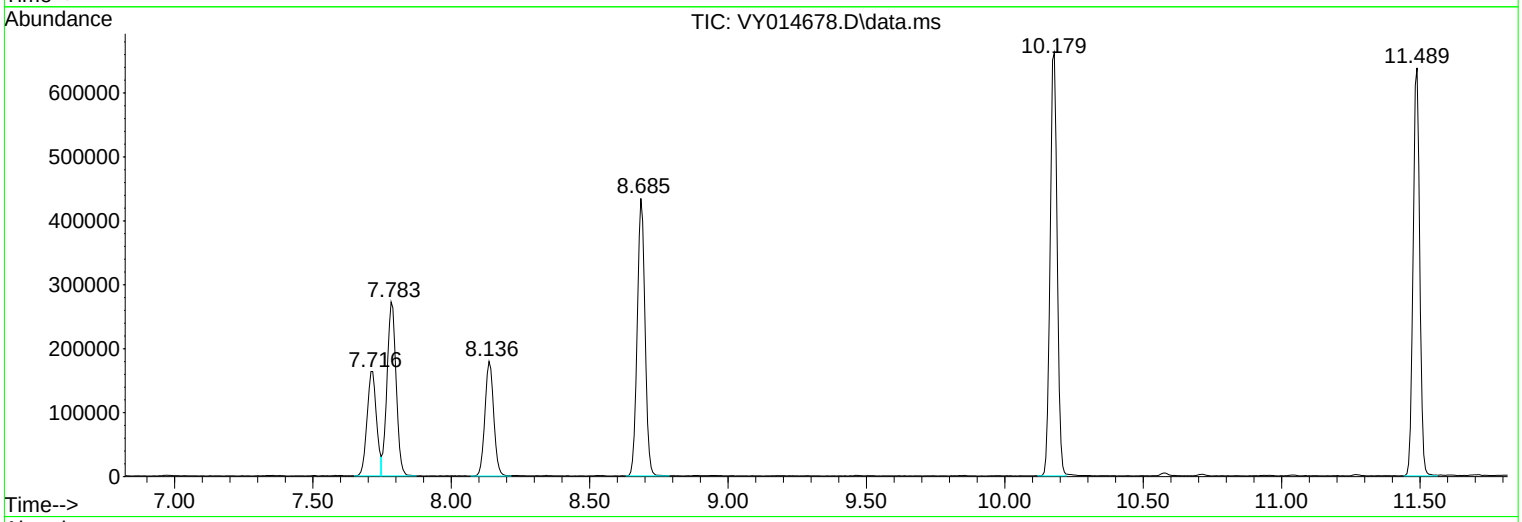
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

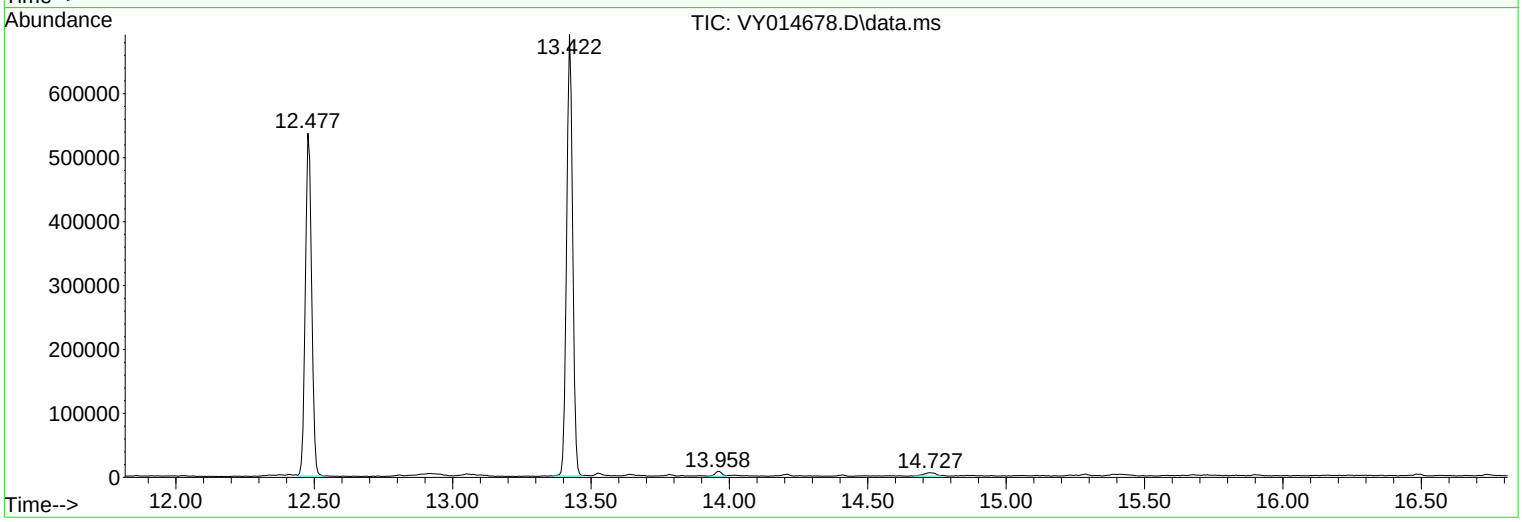
Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014678.D
Acq On : 17 Jul 2023 17:30
Operator : SY/MD
Sample : 03631-04
Misc : 6.26g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-04(2-4)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-07(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.4
Sample Wt/Vol:	6.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014679.D	1		07/17/23 17:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.30	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.10	J	0.78	4.30	ug/Kg
75-01-4	Vinyl Chloride	4.30	U	0.80	4.30	ug/Kg
74-83-9	Bromomethane	4.30	U	1.00	4.30	ug/Kg
75-00-3	Chloroethane	4.30	U	0.75	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	4.30	U	0.91	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	4.30	U	0.62	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	4.30	U	0.68	4.30	ug/Kg
67-64-1	Acetone	21.4	U	8.00	21.4	ug/Kg
75-15-0	Carbon Disulfide	4.30	U	1.90	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	4.30	U	0.56	4.30	ug/Kg
79-20-9	Methyl Acetate	4.30	U	1.40	4.30	ug/Kg
75-09-2	Methylene Chloride	8.60	U	5.20	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	4.30	U	0.62	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	4.30	U	0.62	4.30	ug/Kg
110-82-7	Cyclohexane	4.30	U	0.60	4.30	ug/Kg
78-93-3	2-Butanone	21.4	U	6.20	21.4	ug/Kg
56-23-5	Carbon Tetrachloride	4.30	U	0.67	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	4.30	U	0.55	4.30	ug/Kg
74-97-5	Bromochloromethane	4.30	U	2.00	4.30	ug/Kg
67-66-3	Chloroform	4.30	U	1.10	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	4.30	U	0.65	4.30	ug/Kg
108-87-2	Methylcyclohexane	4.30	U	2.90	4.30	ug/Kg
71-43-2	Benzene	4.30	U	0.57	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	4.30	U	0.62	4.30	ug/Kg
79-01-6	Trichloroethene	4.30	U	0.57	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	4.30	U	0.51	4.30	ug/Kg
75-27-4	Bromodichloromethane	4.30	U	0.60	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	21.4	U	3.90	21.4	ug/Kg
108-88-3	Toluene	4.30	U	0.56	4.30	ug/Kg

CHEMTECH
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-07(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.4
Sample Wt/Vol:	6.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014679.D	1		07/17/23 17:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	4.30	U	0.66	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	4.30	U	0.63	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	4.30	U	0.74	4.30	ug/Kg
591-78-6	2-Hexanone	21.4	U	4.50	21.4	ug/Kg
124-48-1	Dibromochloromethane	4.30	U	0.73	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	4.30	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	4.30	U	0.66	4.30	ug/Kg
108-90-7	Chlorobenzene	4.30	U	0.54	4.30	ug/Kg
100-41-4	Ethyl Benzene	4.30	U	0.57	4.30	ug/Kg
179601-23-1	m/p-Xylenes	8.60	U	1.20	8.60	ug/Kg
1330-20-7	Total Xylenes	12.9	U	1.86	12.9	ug/Kg
95-47-6	o-Xylene	4.30	U	0.66	4.30	ug/Kg
100-42-5	Styrene	4.30	U	0.59	4.30	ug/Kg
75-25-2	Bromoform	4.30	U	0.81	4.30	ug/Kg
98-82-8	Isopropylbenzene	4.30	U	0.61	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	4.30	U	0.92	4.30	ug/Kg
103-65-1	n-propylbenzene	4.30	U	0.60	4.30	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	4.30	U	0.55	4.30	ug/Kg
98-06-6	tert-Butylbenzene	4.30	U	0.66	4.30	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	4.30	U	0.57	4.30	ug/Kg
135-98-8	sec-Butylbenzene	4.30	U	0.66	4.30	ug/Kg
99-87-6	p-Isopropyltoluene	4.30	U	0.63	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	4.30	U	0.58	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	4.30	U	0.51	4.30	ug/Kg
104-51-8	n-Butylbenzene	4.30	U	0.58	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	4.30	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.30	U	1.00	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.30	U	0.52	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.30	U	0.54	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.3		50 - 163	113%	SPK: 50

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-07(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.4
Sample Wt/Vol:	6.76 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014679.D	1		07/17/23 17:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.7		54 - 147	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		30 - 143	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.783			
540-36-3	1,4-Difluorobenzene	373000	8.685			
3114-55-4	Chlorobenzene-d5	353000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Quant Time: Jul 18 06:12:38 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

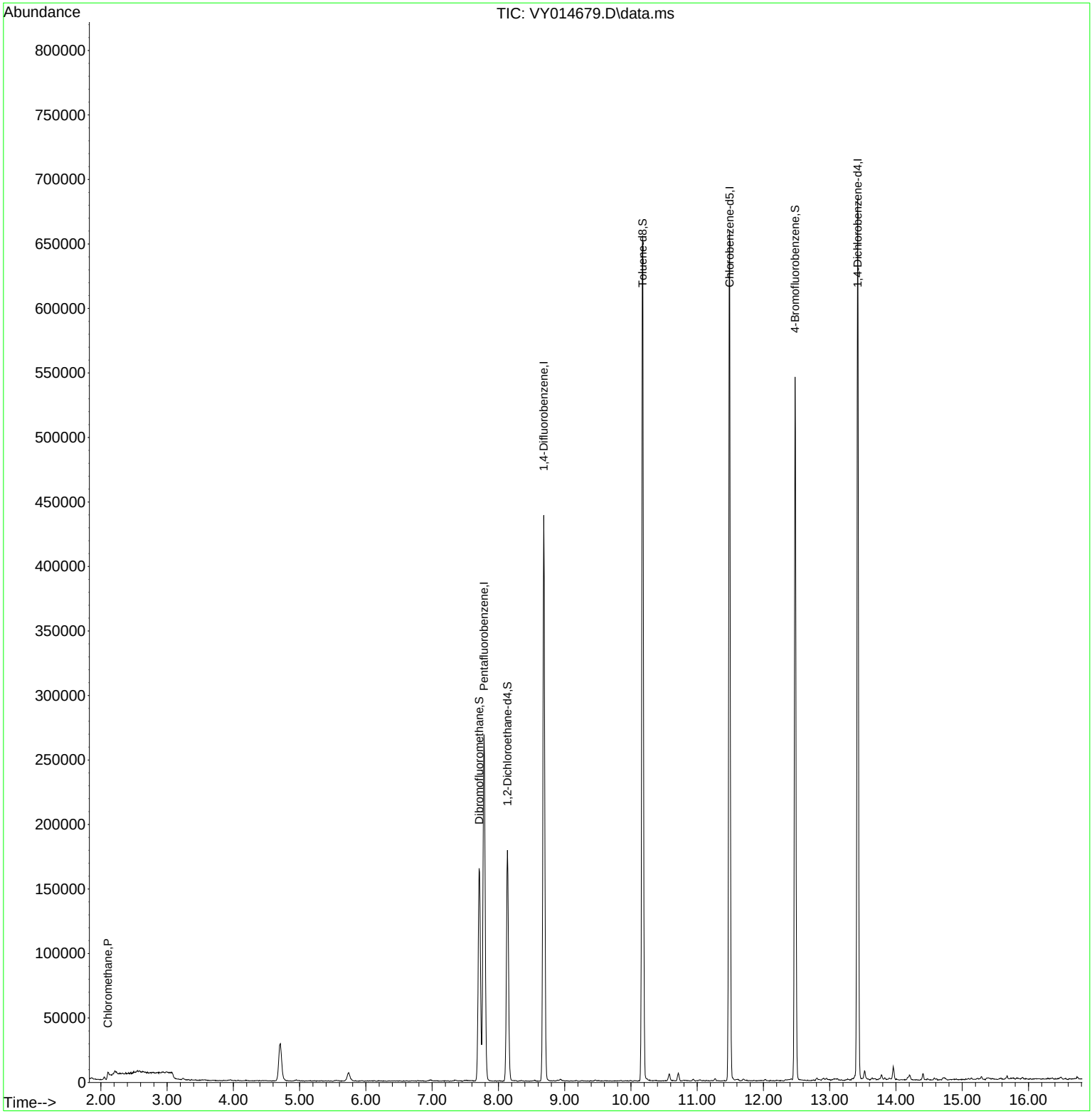
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.783	168	212014	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	372842	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	353070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	169405	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	136010	56.296	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.600%			
35) Dibromofluoromethane	7.710	113	120363	50.713	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.420%			
50) Toluene-d8	10.179	98	441396	50.444	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.880%			
62) 4-Bromofluorobenzene	12.477	95	169693	50.576	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.160%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2605	1.342	ug/l	89

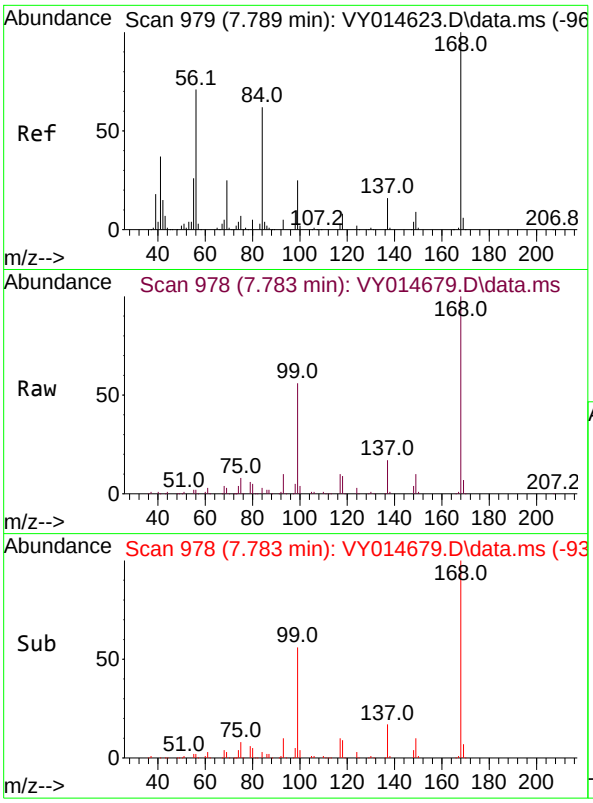
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Quant Time: Jul 18 06:12:38 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



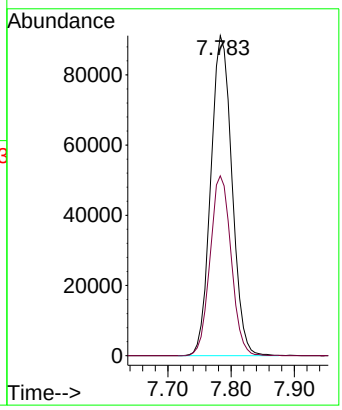


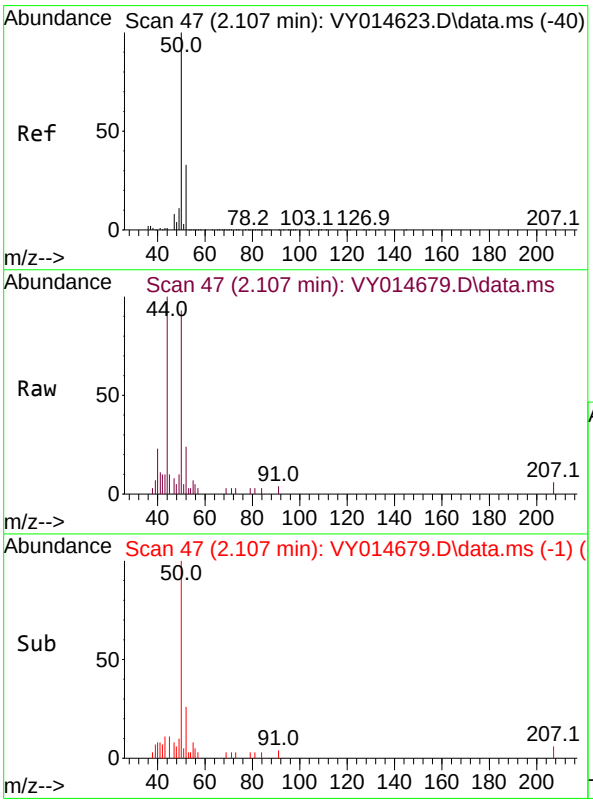
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Tgt Ion:168 Resp: 212014

Ion	Ratio	Lower	Upper
168	100		
99	56.2	43.4	65.0

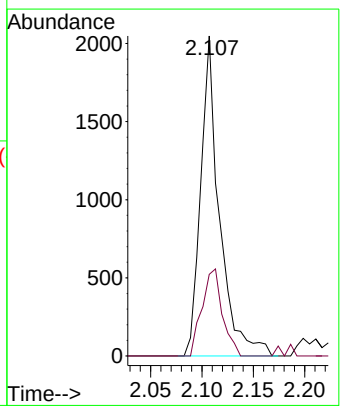


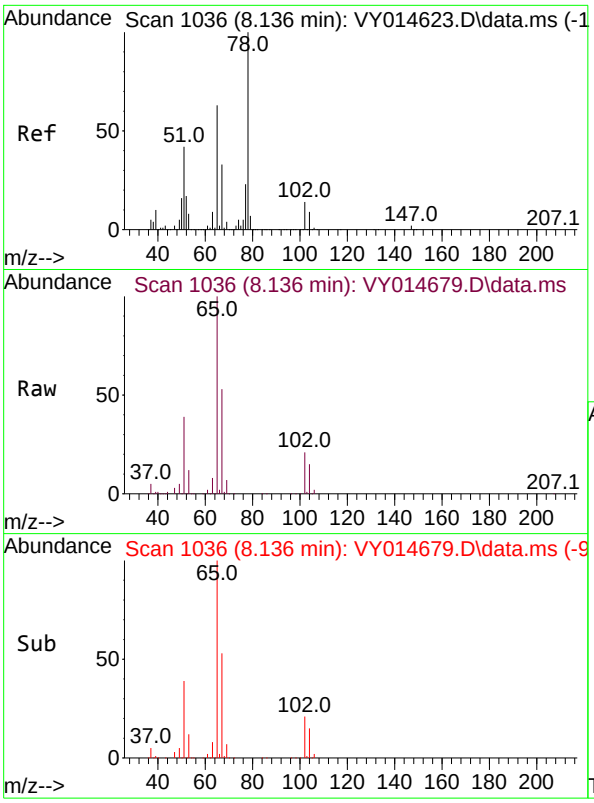


#3
Chloromethane
Concen: 1.342 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Tgt Ion: 50 Resp: 2605

Ion	Ratio	Lower	Upper
50	100		
52	25.5	25.4	38.2



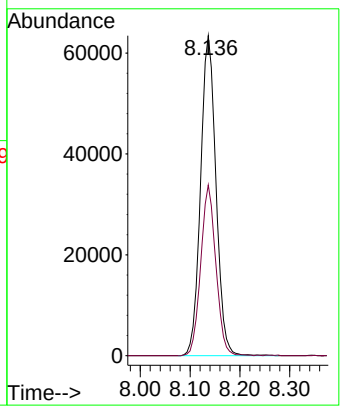


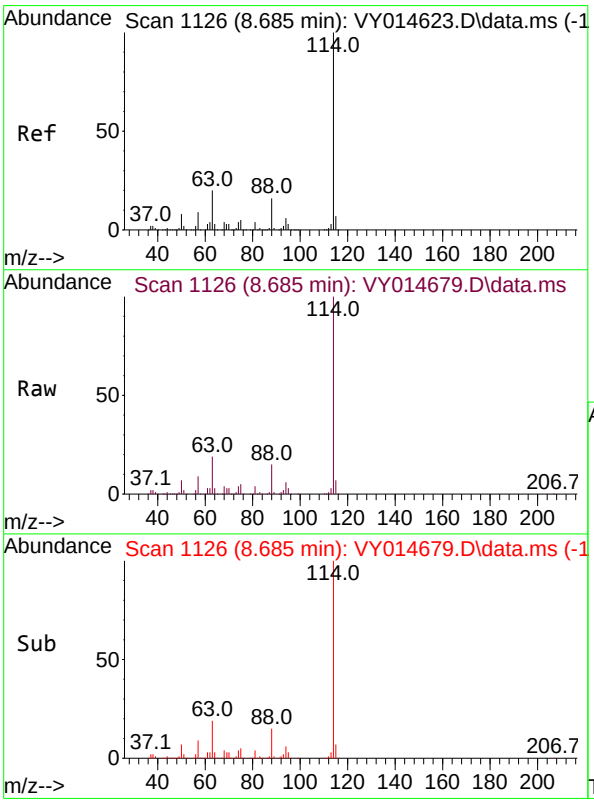
#33
1,2-Dichloroethane-d4
Concen: 56.296 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Tgt Ion: 65 Resp: 136010

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	101.8

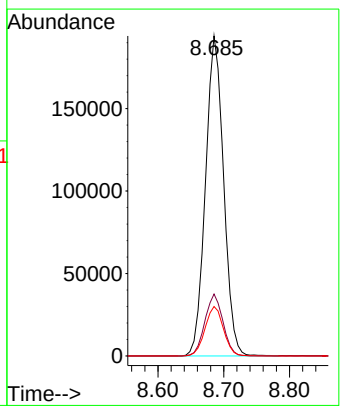


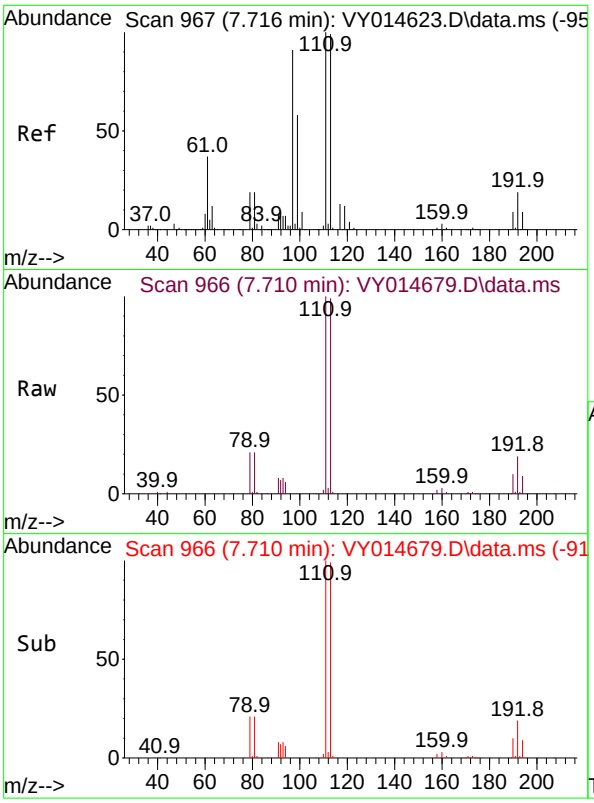


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Tgt Ion:114 Resp: 372842

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.4
88	15.4	0.0	30.6



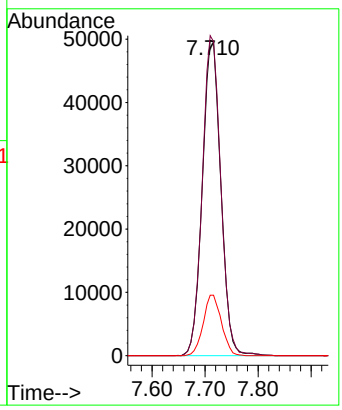


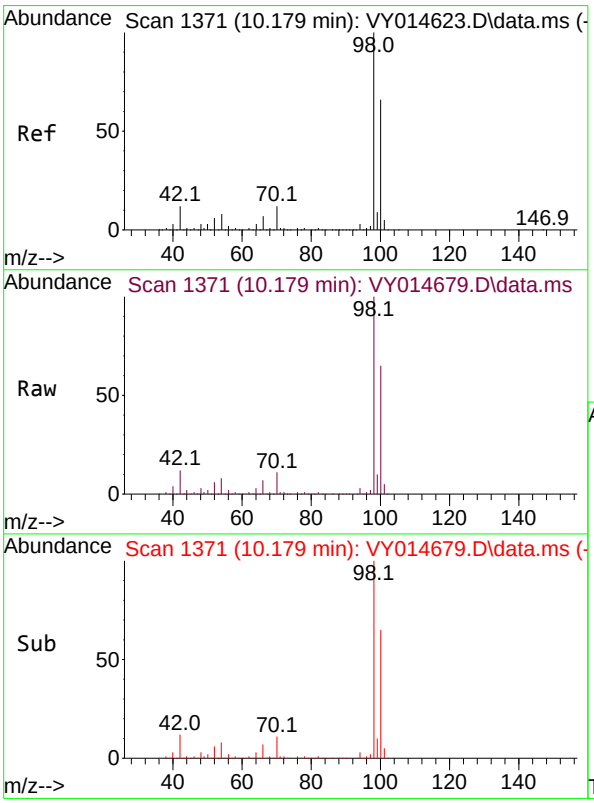
#35
Dibromofluoromethane
Concen: 50.713 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Tgt Ion:113 Resp: 120363

Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.3	121.9
192	18.9	16.9	25.3

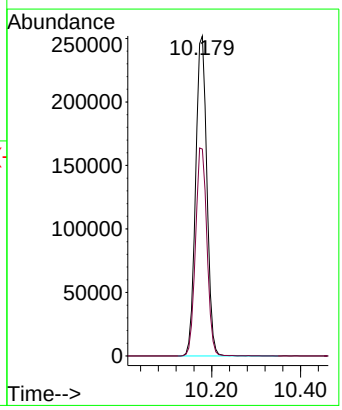


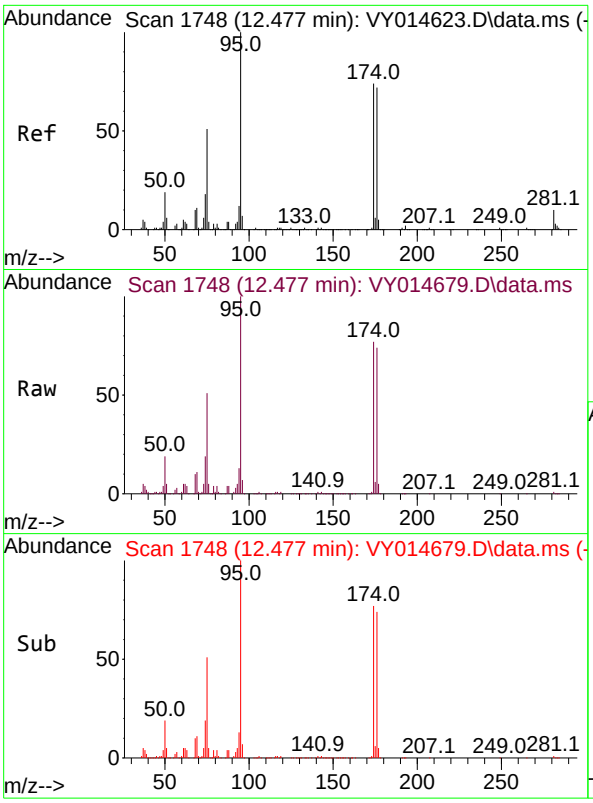


#50
Toluene-d8
Concen: 50.444 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Tgt Ion: 98 Resp: 441396

Ion	Ratio	Lower	Upper
98	100		
100	65.9	50.1	75.1



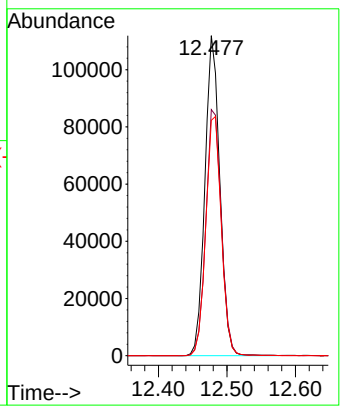


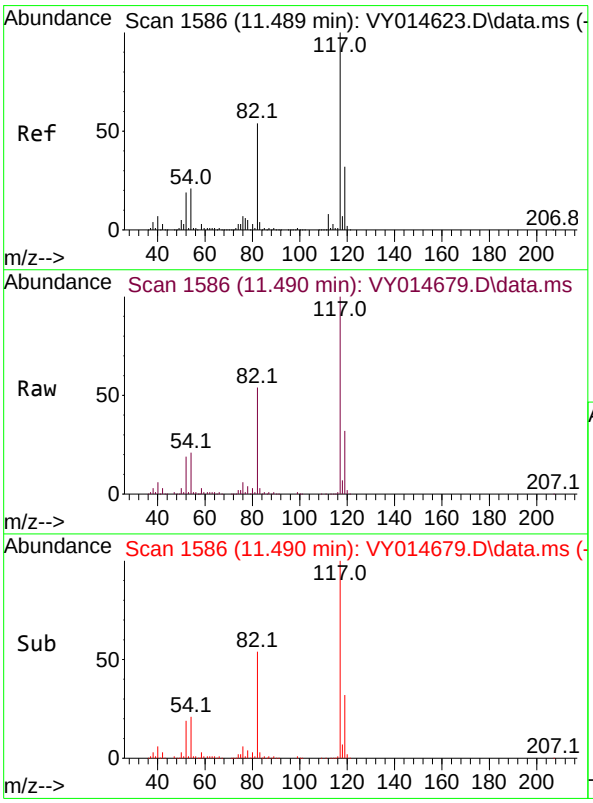
#62
4-Bromofluorobenzene
Concen: 50.576 ug/l
RT: 12.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Tgt Ion: 95 Resp: 169693

Ion	Ratio	Lower	Upper
95	100		
174	80.0	0.0	178.2
176	77.7	0.0	173.8

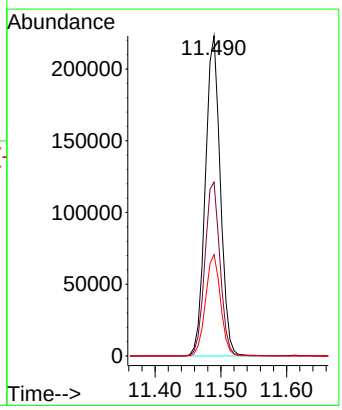


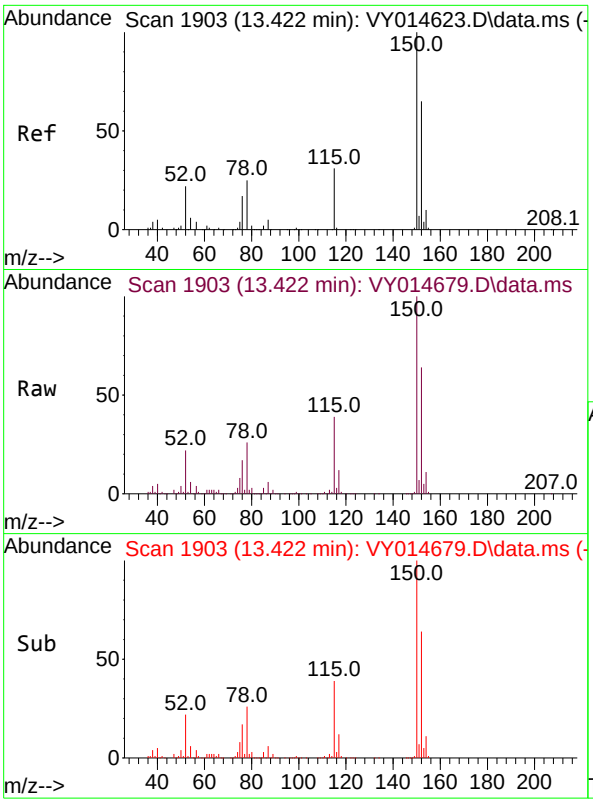


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Tgt Ion:117 Resp: 353070

Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.4	65.0
119	31.7	26.3	39.5



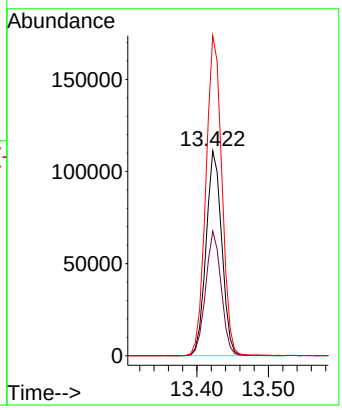


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014679.D
Acq: 17 Jul 2023 17:54

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Tgt Ion:152 Resp: 169405

Ion	Ratio	Lower	Upper
152	100		
115	60.4	28.8	86.5
150	158.5	0.0	348.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014679.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.710	462	474	486	rBV2	28756	90641	7.80%	1.399%
2	5.741	630	643	653	rBV6	6532	20423	1.76%	0.315%
3	7.710	956	966	972	rBV	164735	394216	33.94%	6.086%
4	7.783	972	978	993	rVB	268346	614855	52.93%	9.493%
5	8.136	1027	1036	1048	rBV	179021	383838	33.05%	5.926%
6	8.685	1117	1126	1142	rVB	438569	845909	72.83%	13.060%
7	10.179	1363	1371	1381	rBV	655219	1161538	100.00%	17.933%
8	11.490	1577	1586	1599	rBV	658917	1058396	91.12%	16.341%
9	12.477	1741	1748	1757	rBV	544821	848986	73.09%	13.108%
10	13.422	1892	1903	1912	rBV	682269	1041787	89.69%	16.084%
11	13.959	1986	1991	1997	rVB	10248	16508	1.42%	0.255%

Sum of corrected areas: 6477097

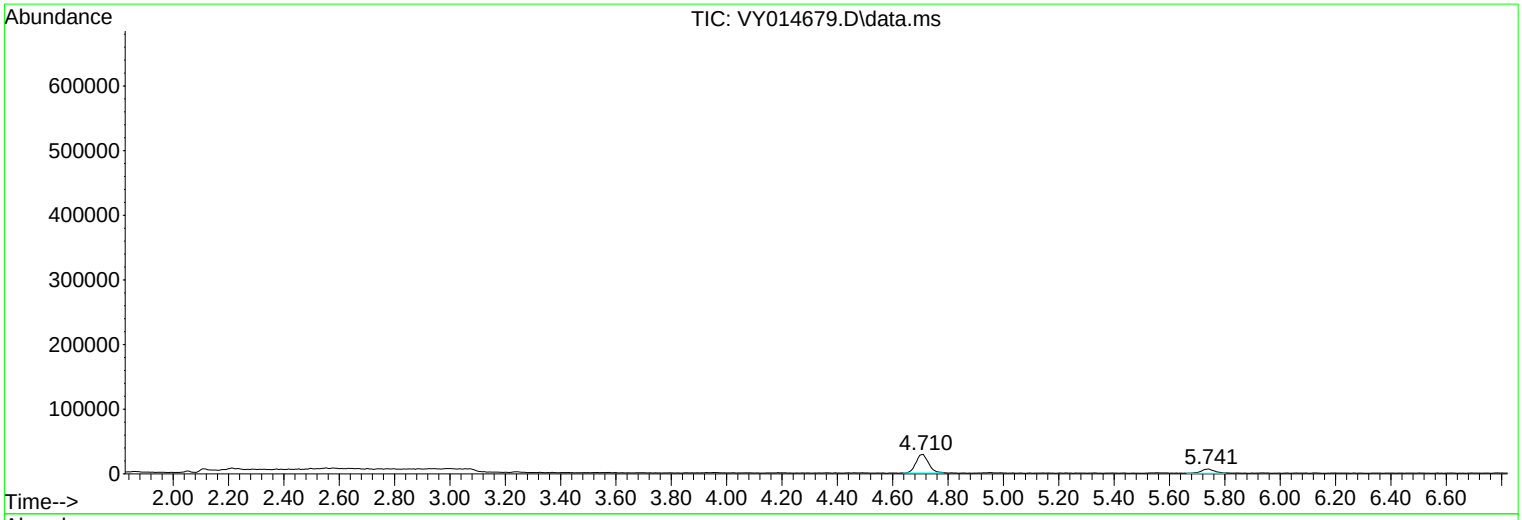
Sample Results: **VY014679.D**

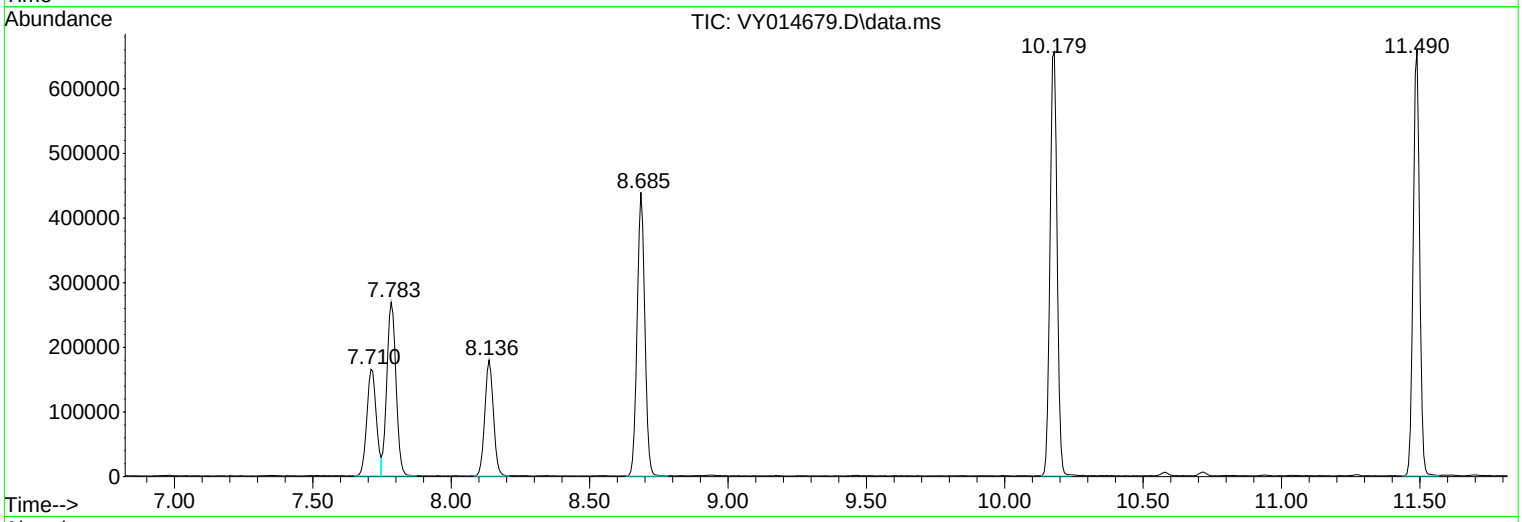
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

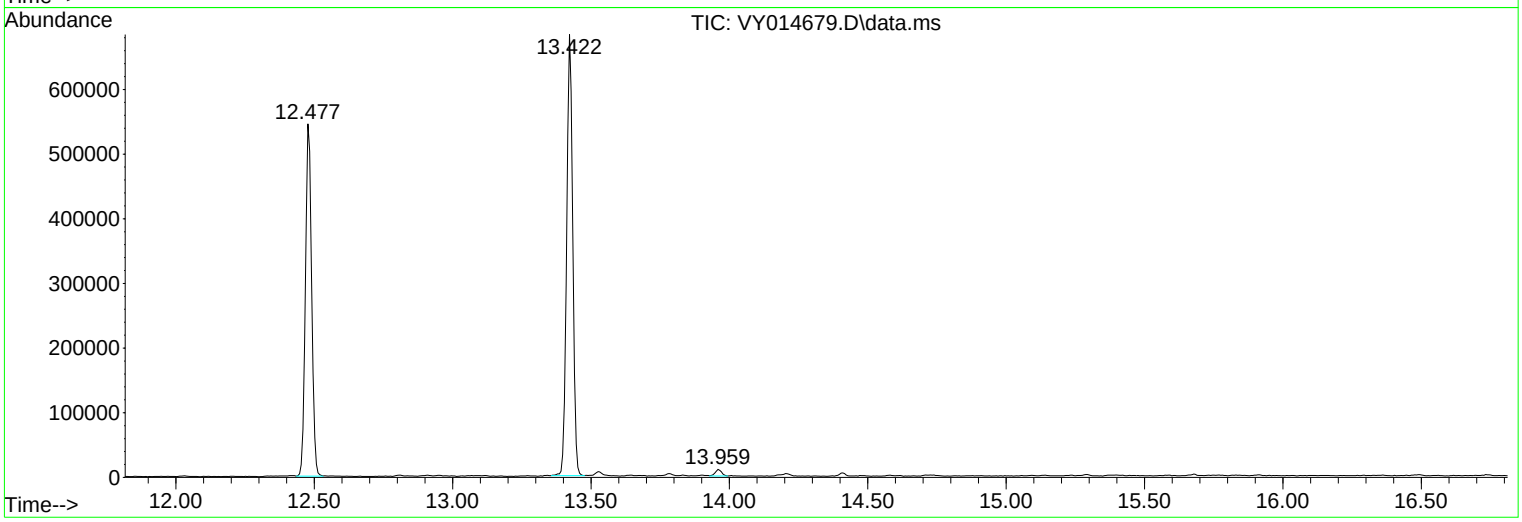
Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014679.D
Acq On : 17 Jul 2023 17:54
Operator : SY/MD
Sample : 03631-05
Misc : 6.76g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-07(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-09(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.2
Sample Wt/Vol:	4.79 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014680.D	1		07/17/23 18:18	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.70	U	1.90	5.70	ug/Kg
74-87-3	Chloromethane	1.50	J	1.00	5.70	ug/Kg
75-01-4	Vinyl Chloride	5.70	U	1.10	5.70	ug/Kg
74-83-9	Bromomethane	5.70	U	1.40	5.70	ug/Kg
75-00-3	Chloroethane	5.70	U	1.00	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	5.70	U	1.20	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.70	U	0.82	5.70	ug/Kg
75-35-4	1,1-Dichloroethene	5.70	U	0.90	5.70	ug/Kg
67-64-1	Acetone	28.6	U	10.7	28.6	ug/Kg
75-15-0	Carbon Disulfide	5.70	U	2.50	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.70	U	0.74	5.70	ug/Kg
79-20-9	Methyl Acetate	5.70	U	1.90	5.70	ug/Kg
75-09-2	Methylene Chloride	12.0		6.90	11.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.70	U	0.84	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	5.70	U	0.82	5.70	ug/Kg
110-82-7	Cyclohexane	5.70	U	0.80	5.70	ug/Kg
78-93-3	2-Butanone	28.6	U	8.30	28.6	ug/Kg
56-23-5	Carbon Tetrachloride	5.70	U	0.89	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.70	U	0.73	5.70	ug/Kg
74-97-5	Bromochloromethane	5.70	U	2.70	5.70	ug/Kg
67-66-3	Chloroform	5.70	U	1.50	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.70	U	0.87	5.70	ug/Kg
108-87-2	Methylcyclohexane	5.70	U	3.90	5.70	ug/Kg
71-43-2	Benzene	5.70	U	0.76	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	5.70	U	0.82	5.70	ug/Kg
79-01-6	Trichloroethene	5.70	U	0.76	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	5.70	U	0.68	5.70	ug/Kg
75-27-4	Bromodichloromethane	5.70	U	0.80	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	28.6	U	5.20	28.6	ug/Kg
108-88-3	Toluene	5.70	U	0.74	5.70	ug/Kg

CHEMTECH
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-09(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.2
Sample Wt/Vol:	4.79 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014680.D	1		07/17/23 18:18	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	5.70	U	0.88	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.70	U	0.85	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.70	U	0.98	5.70	ug/Kg
591-78-6	2-Hexanone	28.6	U	6.00	28.6	ug/Kg
124-48-1	Dibromochloromethane	5.70	U	0.97	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	5.70	U	0.90	5.70	ug/Kg
127-18-4	Tetrachloroethene	5.70	U	0.88	5.70	ug/Kg
108-90-7	Chlorobenzene	5.70	U	0.72	5.70	ug/Kg
100-41-4	Ethyl Benzene	5.70	U	0.77	5.70	ug/Kg
179601-23-1	m/p-Xylenes	11.4	U	1.60	11.4	ug/Kg
1330-20-7	Total Xylenes	17.1	U	2.48	17.1	ug/Kg
95-47-6	o-Xylene	5.70	U	0.88	5.70	ug/Kg
100-42-5	Styrene	5.70	U	0.79	5.70	ug/Kg
75-25-2	Bromoform	5.70	U	1.10	5.70	ug/Kg
98-82-8	Isopropylbenzene	5.70	U	0.81	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.70	U	1.20	5.70	ug/Kg
103-65-1	n-propylbenzene	5.70	U	0.80	5.70	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.70	U	0.73	5.70	ug/Kg
98-06-6	tert-Butylbenzene	5.70	U	0.88	5.70	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.70	U	0.77	5.70	ug/Kg
135-98-8	sec-Butylbenzene	5.70	U	0.88	5.70	ug/Kg
99-87-6	p-Isopropyltoluene	5.70	U	0.85	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.70	U	0.78	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.70	U	0.69	5.70	ug/Kg
104-51-8	n-Butylbenzene	5.70	U	0.78	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.70	U	0.69	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.70	U	1.40	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.70	U	0.70	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.70	U	0.72	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		50 - 163	106%	SPK: 50

CHEMTECH
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-09(3-5)	SDG No.:	O3631
Lab Sample ID:	O3631-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.2
Sample Wt/Vol:	4.79 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014680.D	1		07/17/23 18:18	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	48.9		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	50.7		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		30 - 143	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	211000	7.789			
540-36-3	1,4-Difluorobenzene	367000	8.685			
3114-55-4	Chlorobenzene-d5	339000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Quant Time: Jul 18 06:12:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

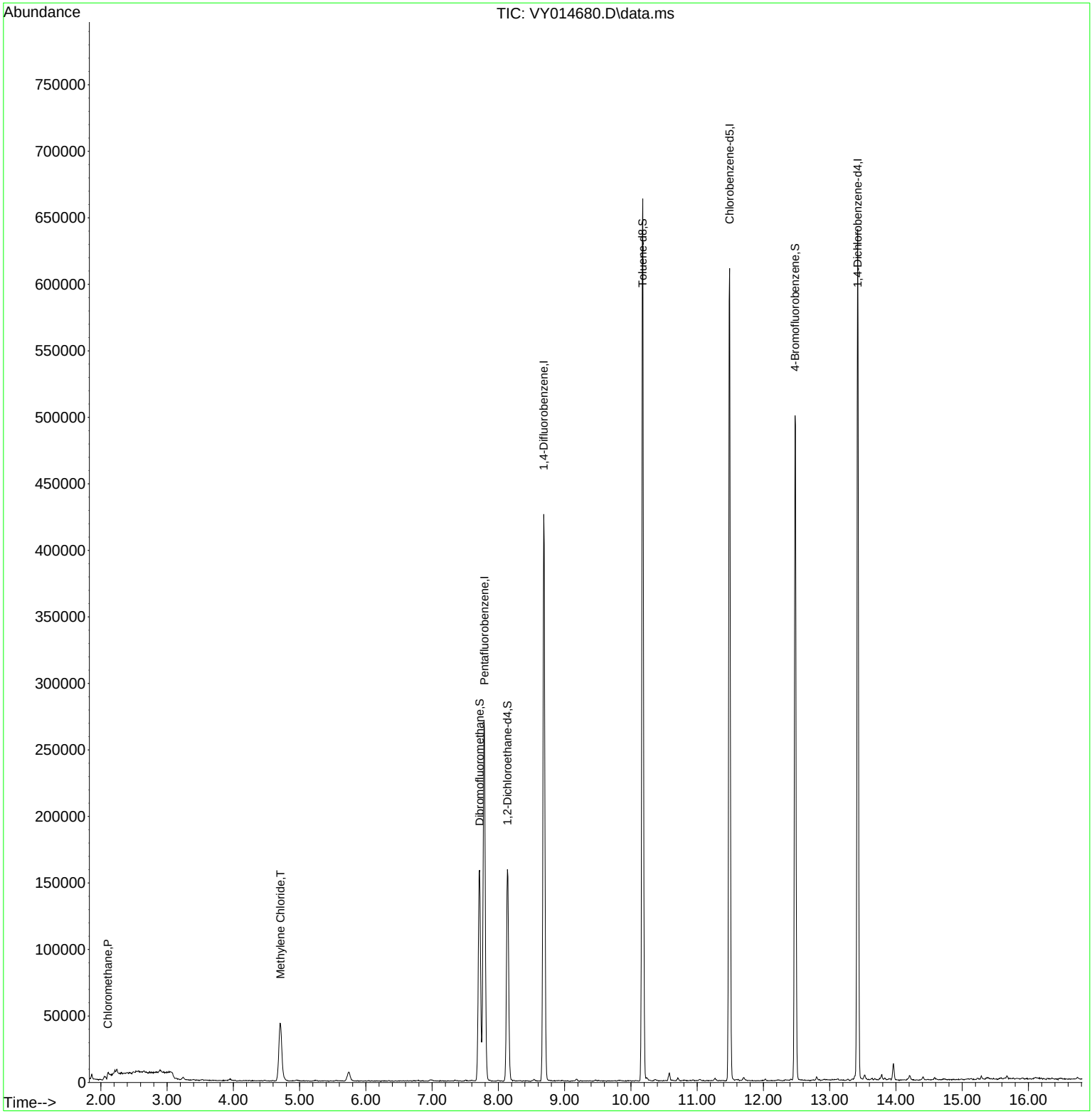
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	210931	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	367164	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	339192	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	160685	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	127046	52.856	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.720%			
35) Dibromofluoromethane	7.716	113	114289	48.898	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.800%			
50) Toluene-d8	10.179	98	436971	50.710	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.420%			
62) 4-Bromofluorobenzene	12.477	95	161990	49.027	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.060%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2498	1.293	ug/l	98
20) Methylene Chloride	4.710	84	34134	10.455	ug/l	85

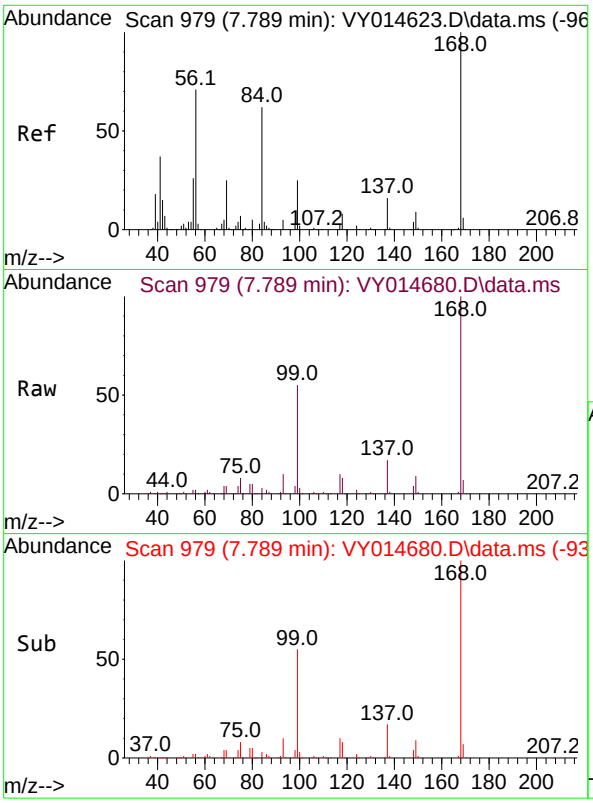
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Quant Time: Jul 18 06:12:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



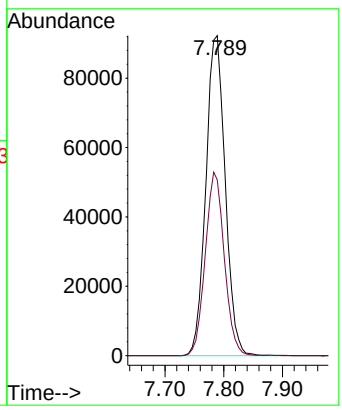


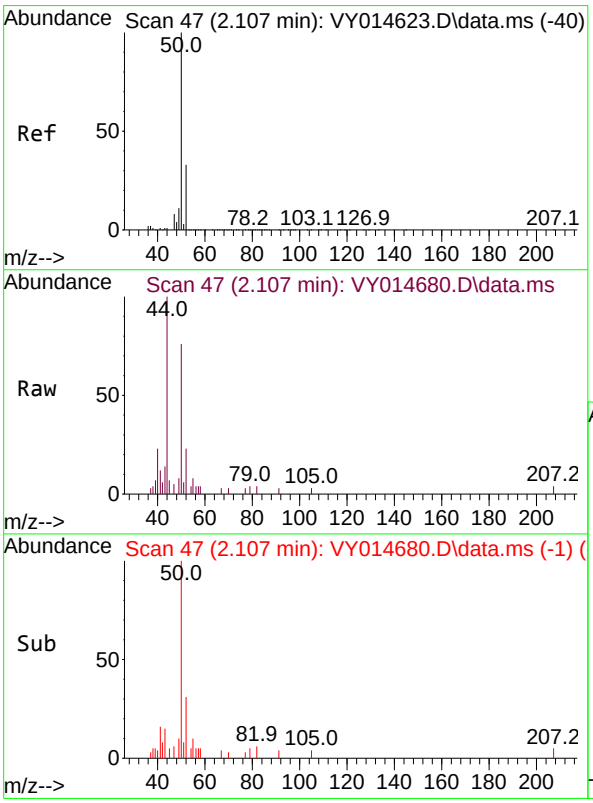
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Tgt Ion:168 Resp: 210931

Ion	Ratio	Lower	Upper
168	100		
99	55.0	43.4	65.0

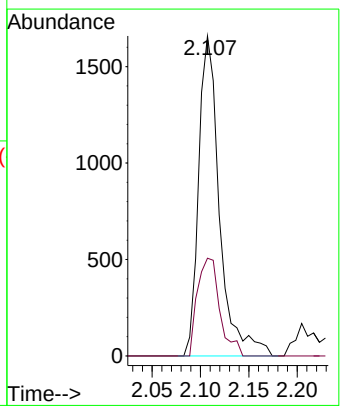


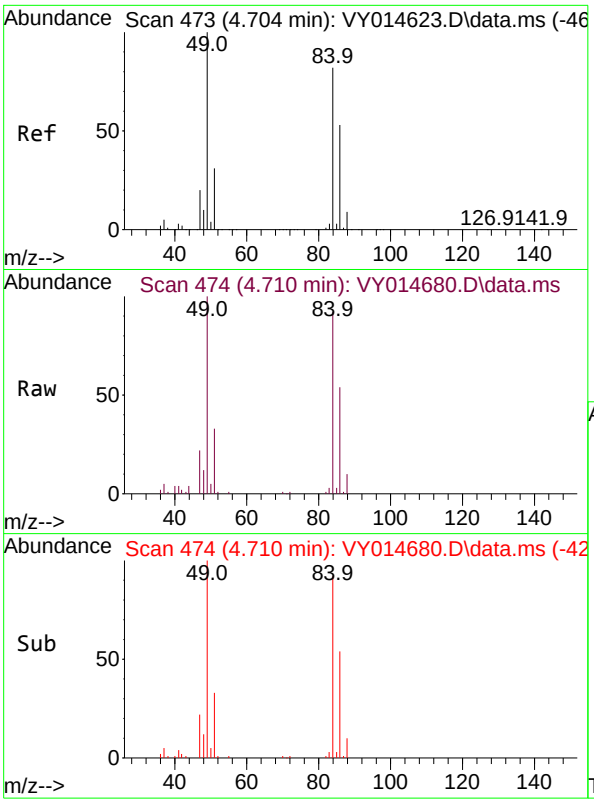


#3
Chloromethane
Concen: 1.293 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Tgt Ion: 50 Resp: 2498

Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.4	38.2



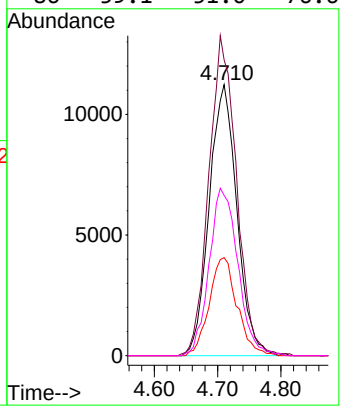


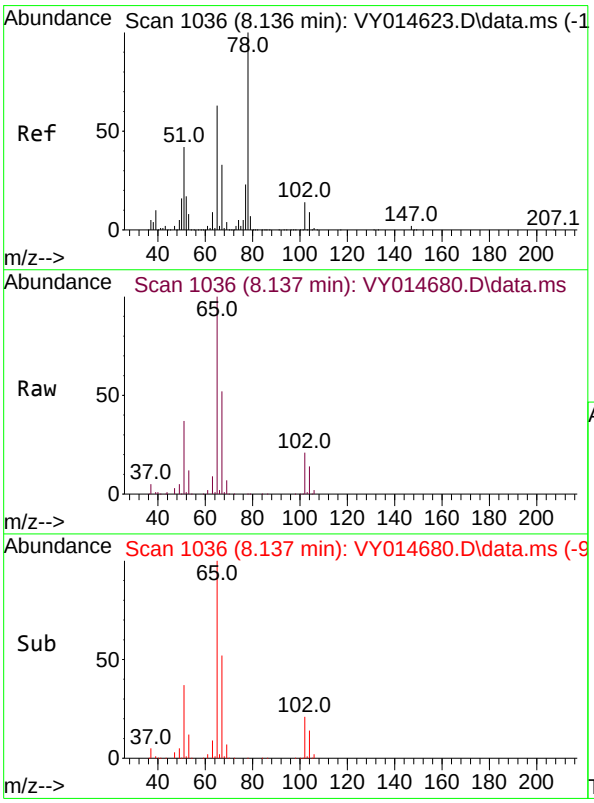
#20
Methylene Chloride
Concen: 10.455 ug/l
RT: 4.710 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Tgt Ion: 84 Resp: 34134

Ion	Ratio	Lower	Upper
84	100		
49	109.1	106.9	160.3
51	36.2	33.2	49.8
86	59.1	51.0	76.6

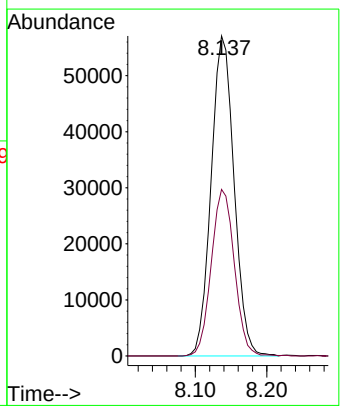


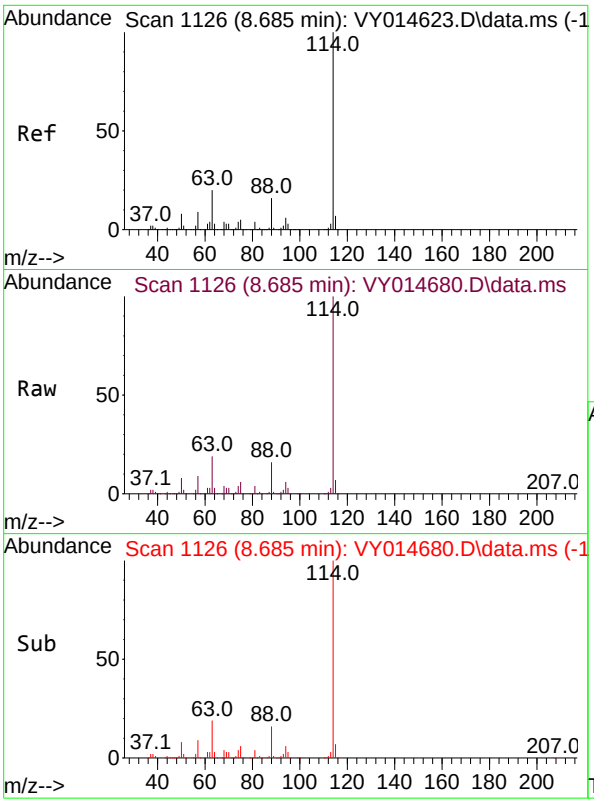


#33
1,2-Dichloroethane-d4
Concen: 52.856 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Tgt Ion: 65 Resp: 127046

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	101.8



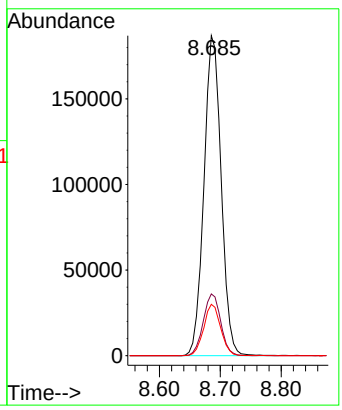


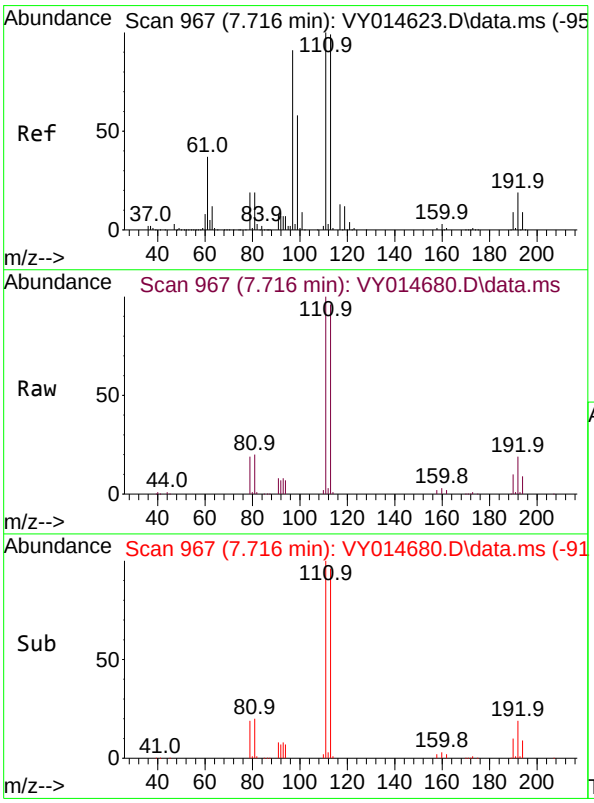
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Tgt Ion:114 Resp: 367164

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.4
88	16.0	0.0	30.6

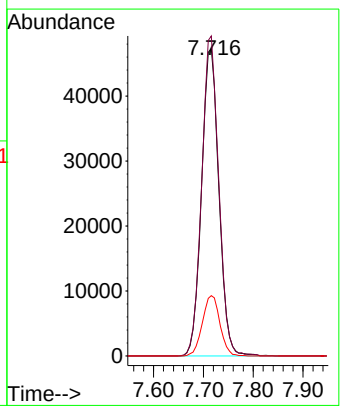


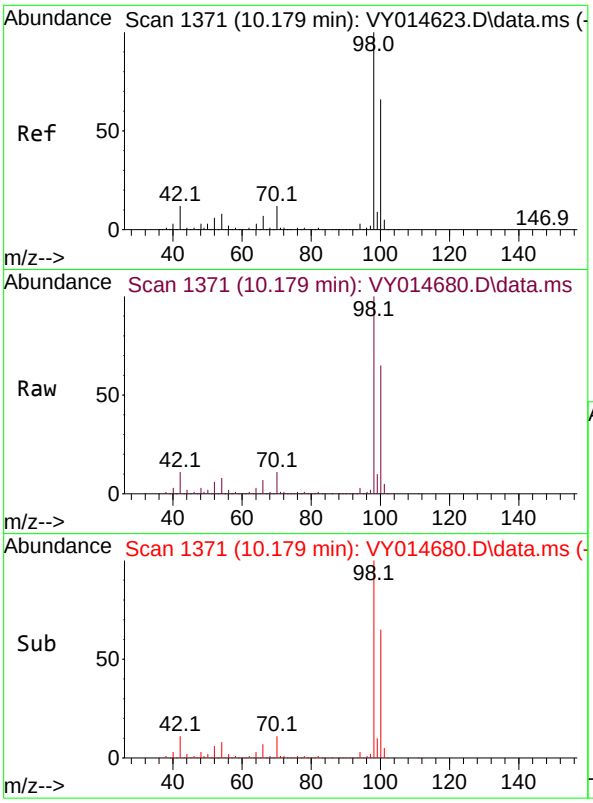


#35
Dibromofluoromethane
Concen: 48.898 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Tgt Ion:113 Resp: 114289

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.3	121.9
192	19.8	16.9	25.3



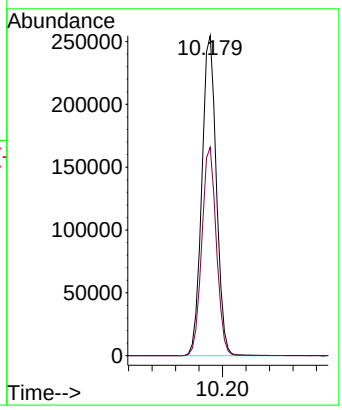


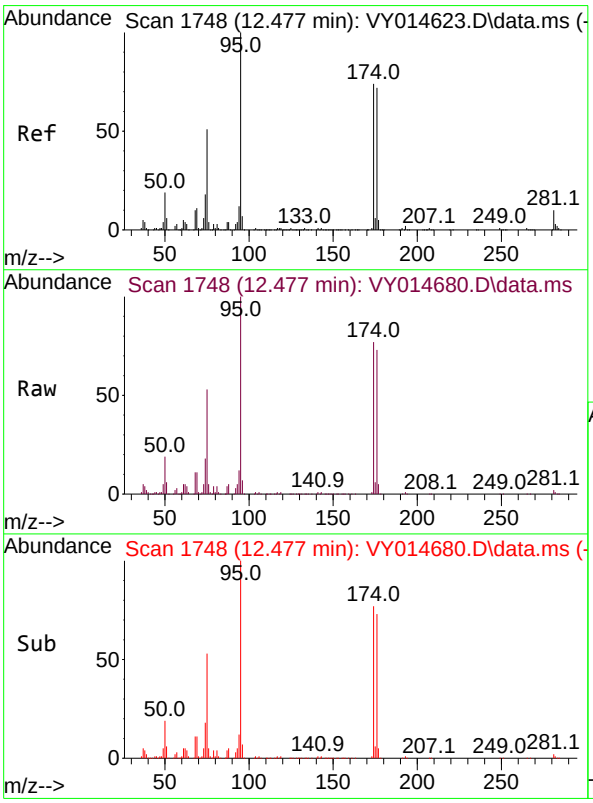
#50
Toluene-d8
Concen: 50.710 ug/l
RT: 10.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Tgt Ion: 98 Resp: 436971

Ion	Ratio	Lower	Upper
98	100		
100	65.3	50.1	75.1

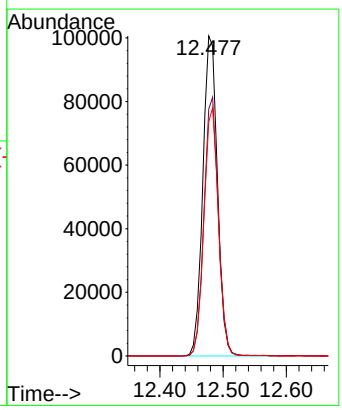


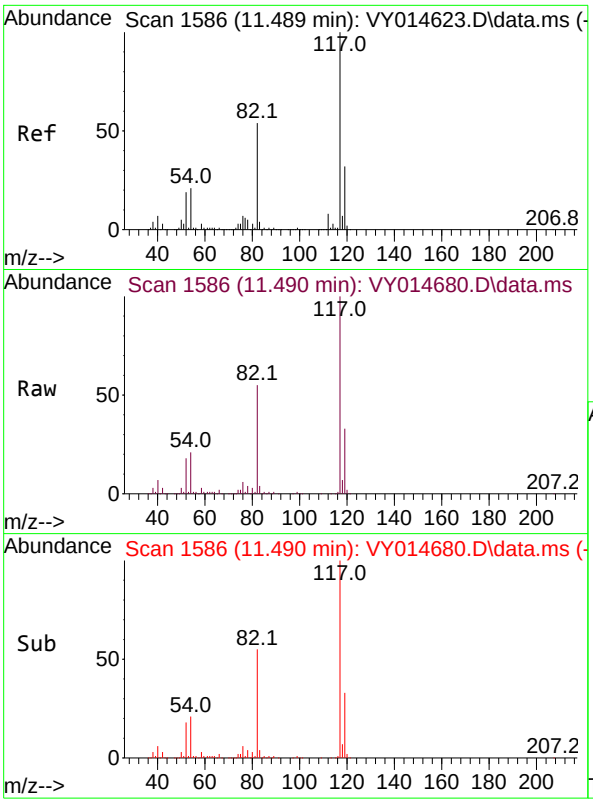


#62
4-Bromofluorobenzene
Concen: 49.027 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Tgt Ion: 95 Resp: 161990

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	178.2
176	76.7	0.0	173.8



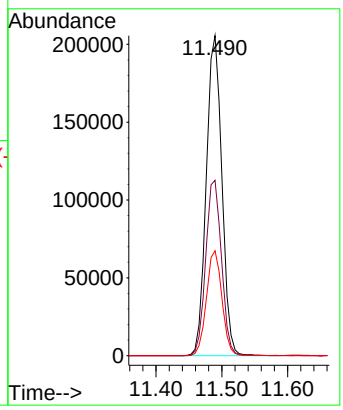


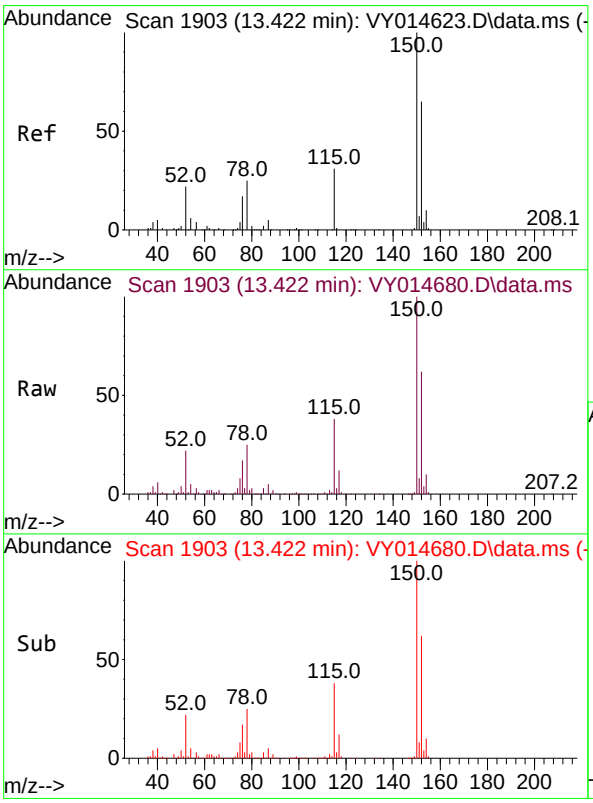
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Tgt Ion:117 Resp: 339192

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	32.8	26.3	39.5

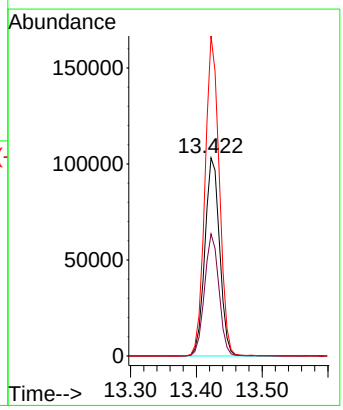




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014680.D
Acq: 17 Jul 2023 18:18

Tgt Ion:152 Resp: 160685

Ion	Ratio	Lower	Upper
152	100		
115	60.1	28.8	86.5
150	156.3	0.0	348.8



Sample Results: **VY014680.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014680.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.704	463	473	490	rBV	43334	139346	12.14%	2.199%
2	5.741	632	643	650	rBV3	6872	21607	1.88%	0.341%
3	7.716	956	967	972	rBV2	158455	378740	33.01%	5.977%
4	7.783	972	978	991	rVB	271003	617937	53.85%	9.752%
5	8.137	1025	1036	1049	rBV	159383	360769	31.44%	5.693%
6	8.685	1118	1126	1138	rBV	426160	836859	72.93%	13.207%
7	10.179	1363	1371	1379	rBV	663059	1147473	100.00%	18.109%
8	11.490	1578	1586	1598	rBV	610798	1021989	89.06%	16.128%
9	12.477	1741	1748	1761	rBV	499528	813993	70.94%	12.846%
10	13.422	1896	1903	1911	rVB	638411	977652	85.20%	15.429%
11	13.965	1986	1992	1997	rBV2	12208	20223	1.76%	0.319%

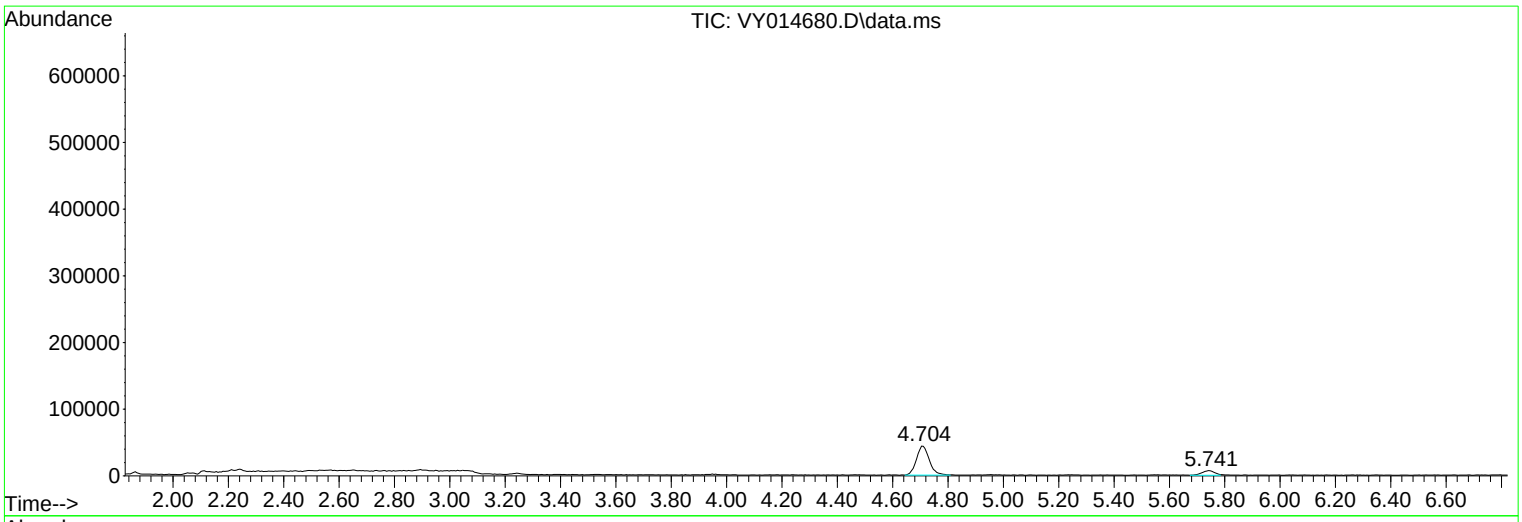
Sum of corrected areas: 6336588

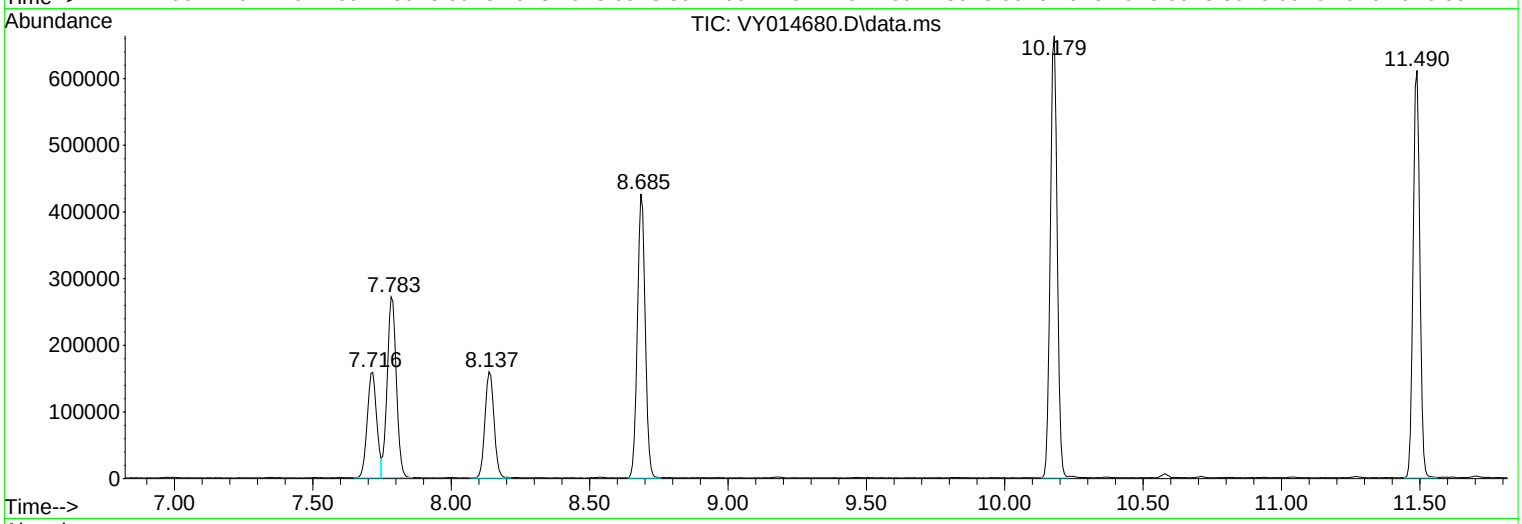
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

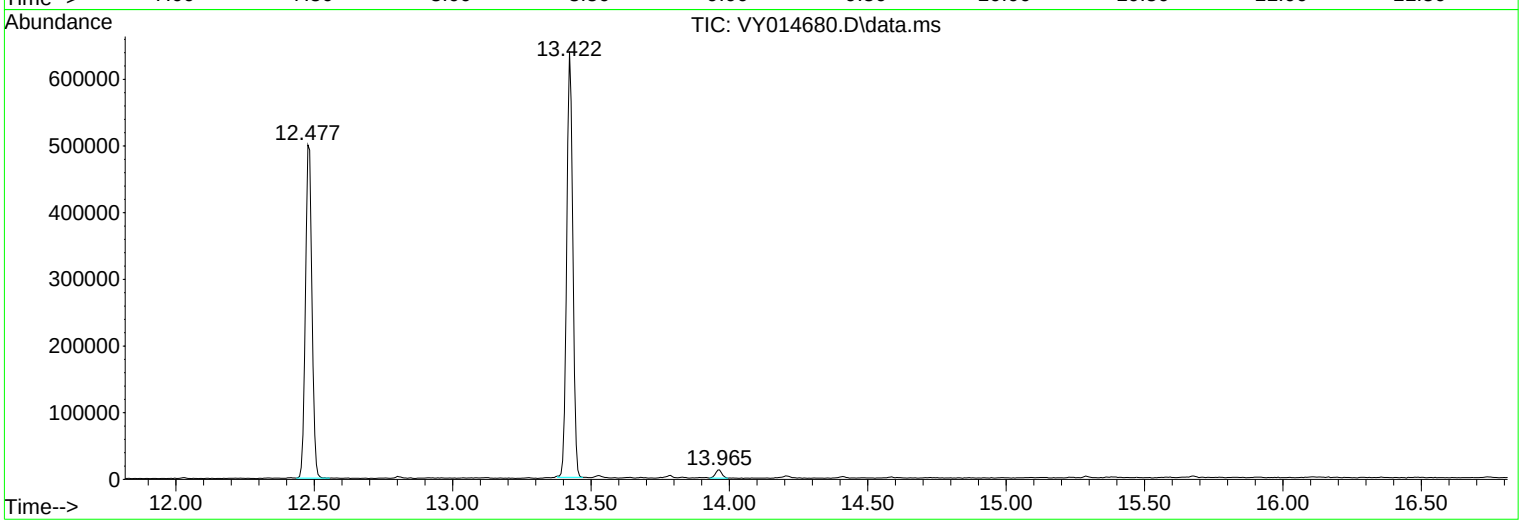
Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014680.D
Acq On : 17 Jul 2023 18:18
Operator : SY/MD
Sample : 03631-06
Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-09(3-5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-10(5-6)	SDG No.:	O3631
Lab Sample ID:	O3631-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.7
Sample Wt/Vol:	5.96 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014681.D	1		07/17/23 18:41	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.40	U	1.80	5.40	ug/Kg
74-87-3	Chloromethane	1.30	J	0.98	5.40	ug/Kg
75-01-4	Vinyl Chloride	5.40	U	1.00	5.40	ug/Kg
74-83-9	Bromomethane	5.40	U	1.30	5.40	ug/Kg
75-00-3	Chloroethane	5.40	U	0.95	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	5.40	U	1.10	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.40	U	0.78	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	5.40	U	0.85	5.40	ug/Kg
67-64-1	Acetone	27.0	U	10.1	27.0	ug/Kg
75-15-0	Carbon Disulfide	5.40	U	2.40	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.40	U	0.70	5.40	ug/Kg
79-20-9	Methyl Acetate	5.40	U	1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	10.8	U	6.50	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.40	U	0.79	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	5.40	U	0.78	5.40	ug/Kg
110-82-7	Cyclohexane	5.40	U	0.76	5.40	ug/Kg
78-93-3	2-Butanone	27.0	U	7.80	27.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.40	U	0.84	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.40	U	0.69	5.40	ug/Kg
74-97-5	Bromochloromethane	5.40	U	2.50	5.40	ug/Kg
67-66-3	Chloroform	5.40	U	1.40	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.40	U	0.82	5.40	ug/Kg
108-87-2	Methylcyclohexane	5.40	U	3.60	5.40	ug/Kg
71-43-2	Benzene	5.40	U	0.71	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	5.40	U	0.78	5.40	ug/Kg
79-01-6	Trichloroethene	5.40	U	0.71	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	5.40	U	0.64	5.40	ug/Kg
75-27-4	Bromodichloromethane	5.40	U	0.76	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	27.0	U	4.90	27.0	ug/Kg
108-88-3	Toluene	5.40	U	0.70	5.40	ug/Kg

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-10(5-6)	SDG No.:	O3631
Lab Sample ID:	O3631-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.7
Sample Wt/Vol:	5.96 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014681.D	1		07/17/23 18:41	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	5.40	U	0.83	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.40	U	0.80	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.40	U	0.93	5.40	ug/Kg
591-78-6	2-Hexanone	27.0	U	5.70	27.0	ug/Kg
124-48-1	Dibromochloromethane	5.40	U	0.92	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	5.40	U	0.85	5.40	ug/Kg
127-18-4	Tetrachloroethene	5.40	U	0.83	5.40	ug/Kg
108-90-7	Chlorobenzene	5.40	U	0.68	5.40	ug/Kg
100-41-4	Ethyl Benzene	5.40	U	0.72	5.40	ug/Kg
179601-23-1	m/p-Xylenes	10.8	U	1.50	10.8	ug/Kg
1330-20-7	Total Xylenes	16.2	U	2.33	16.2	ug/Kg
95-47-6	o-Xylene	5.40	U	0.83	5.40	ug/Kg
100-42-5	Styrene	5.40	U	0.74	5.40	ug/Kg
75-25-2	Bromoform	5.40	U	1.00	5.40	ug/Kg
98-82-8	Isopropylbenzene	5.40	U	0.77	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.40	U	1.20	5.40	ug/Kg
103-65-1	n-propylbenzene	5.40	U	0.76	5.40	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.40	U	0.69	5.40	ug/Kg
98-06-6	tert-Butylbenzene	5.40	U	0.83	5.40	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.40	U	0.72	5.40	ug/Kg
135-98-8	sec-Butylbenzene	5.40	U	0.83	5.40	ug/Kg
99-87-6	p-Isopropyltoluene	5.40	U	0.80	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.40	U	0.73	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.40	U	0.65	5.40	ug/Kg
104-51-8	n-Butylbenzene	5.40	U	0.73	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.40	U	0.65	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.40	U	1.30	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.40	U	0.66	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.40	U	0.68	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		50 - 163	110%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-10(5-6)	SDG No.:	O3631
Lab Sample ID:	O3631-07	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.7
Sample Wt/Vol:	5.96 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014681.D	1		07/17/23 18:41	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	49.5		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		30 - 143	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.789			
540-36-3	1,4-Difluorobenzene	367000	8.685			
3114-55-4	Chlorobenzene-d5	339000	11.489			
3855-82-1	1,4-Dichlorobenzene-d4	155000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Quant Time: Jul 18 06:13:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

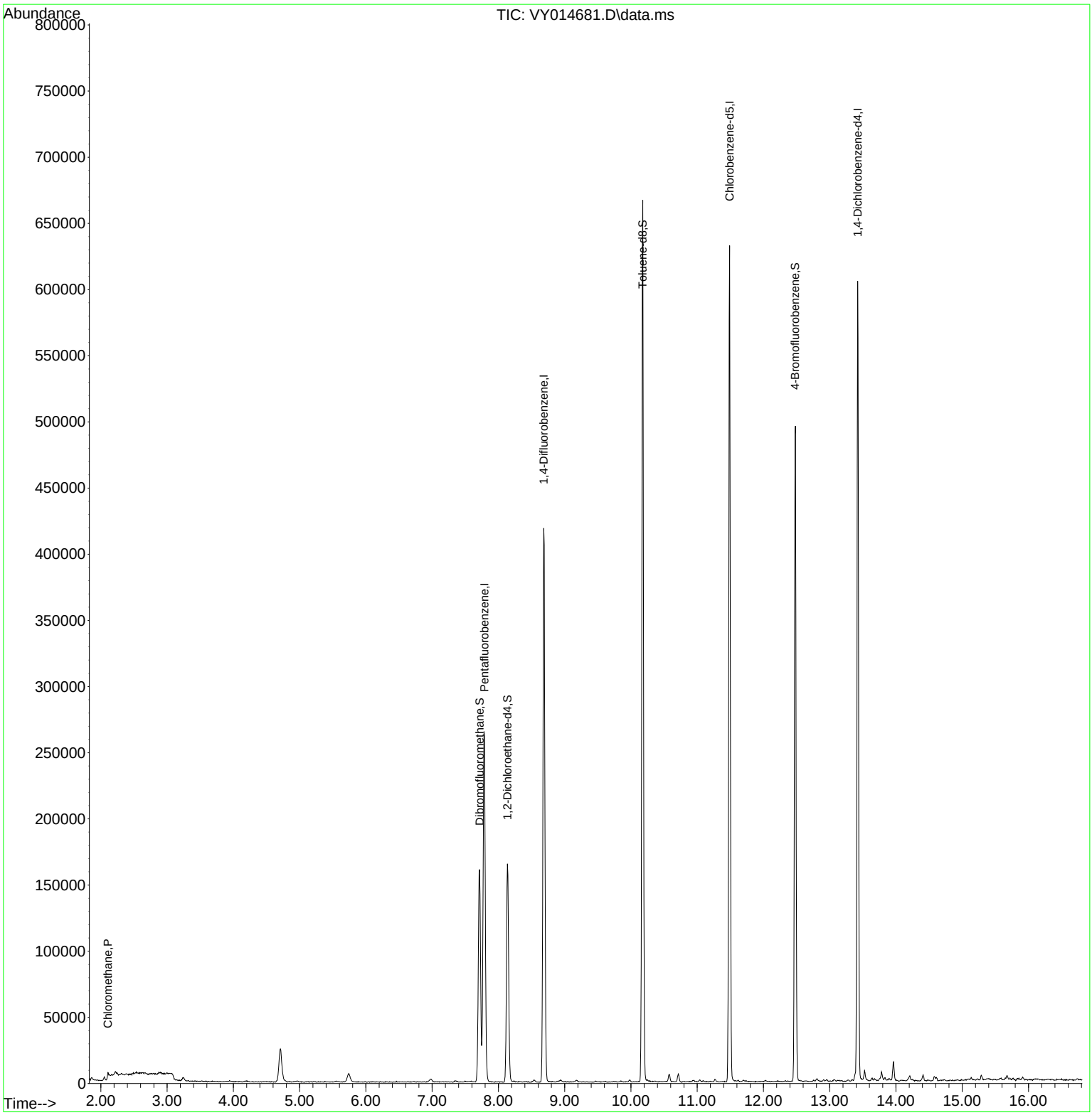
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	208675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	367151	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	338917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	155439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	130869	55.035	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.060%			
35) Dibromofluoromethane	7.716	113	115703	49.505	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.020%			
50) Toluene-d8	10.179	98	432982	50.249	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.500%			
62) 4-Bromofluorobenzene	12.477	95	159350	48.230	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.460%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2318	1.213	ug/l	92

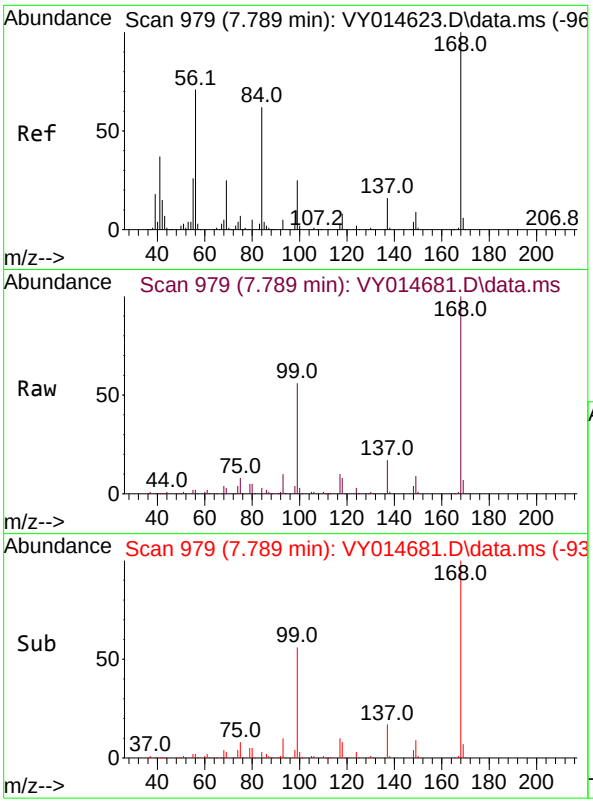
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Quant Time: Jul 18 06:13:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



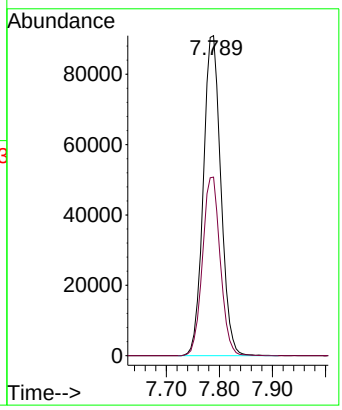


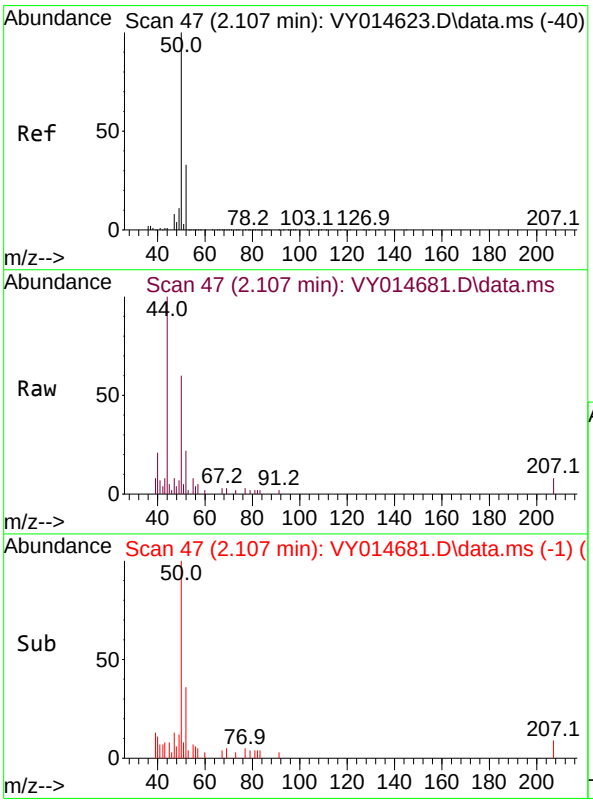
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Tgt Ion:168 Resp: 208675

Ion	Ratio	Lower	Upper
168	100		
99	55.8	43.4	65.0

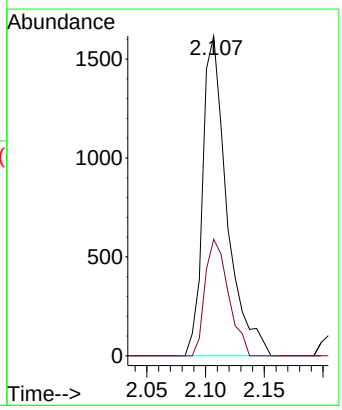


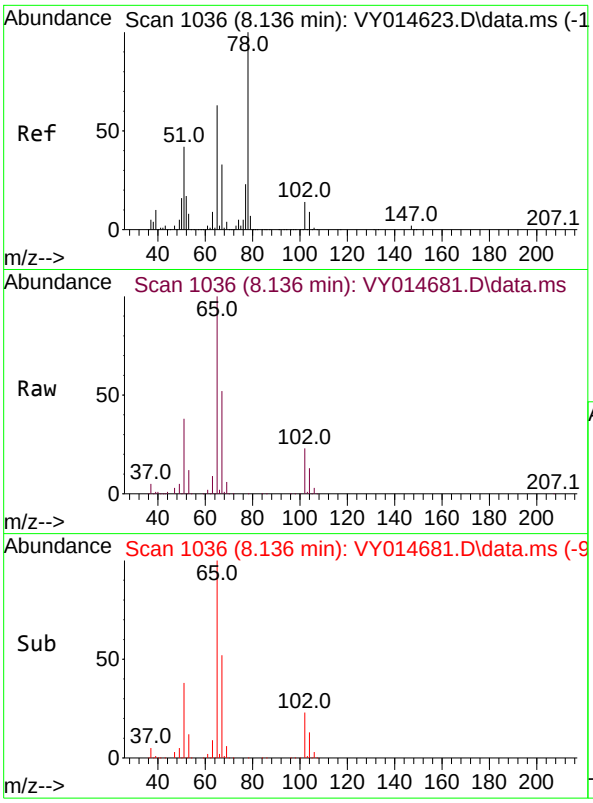


#3
Chloromethane
Concen: 1.213 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Tgt Ion: 50 Resp: 2318

Ion	Ratio	Lower	Upper
50	100		
52	36.4	25.4	38.2



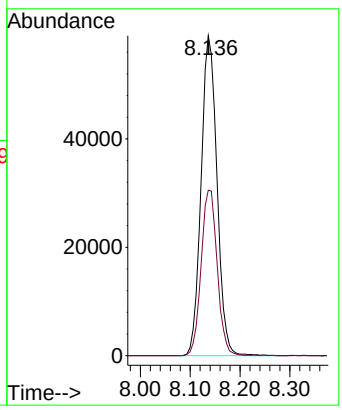


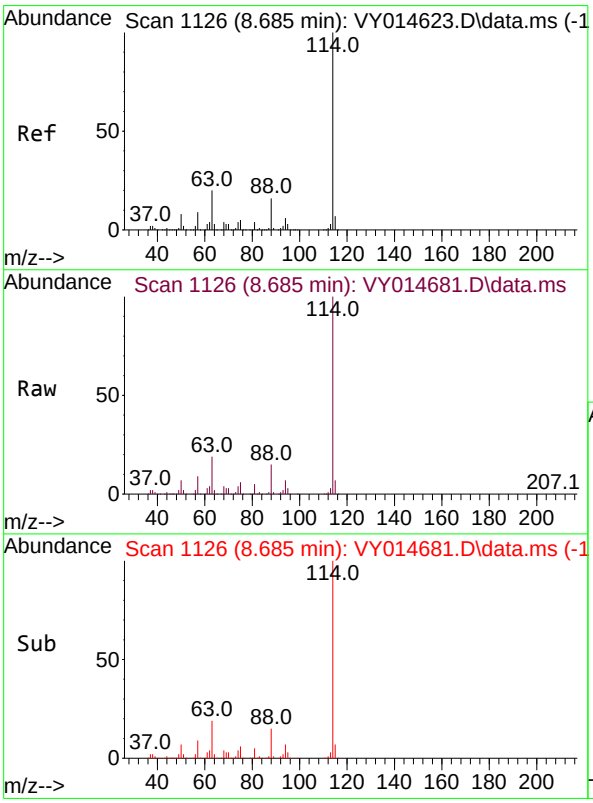
#33
1,2-Dichloroethane-d4
Concen: 55.035 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Tgt Ion: 65 Resp: 130869

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	101.8

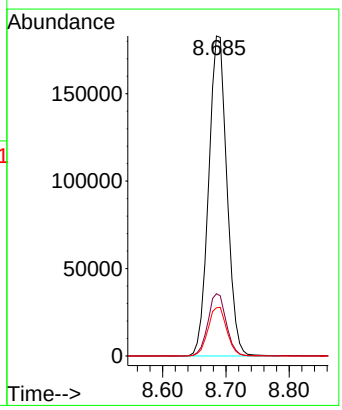


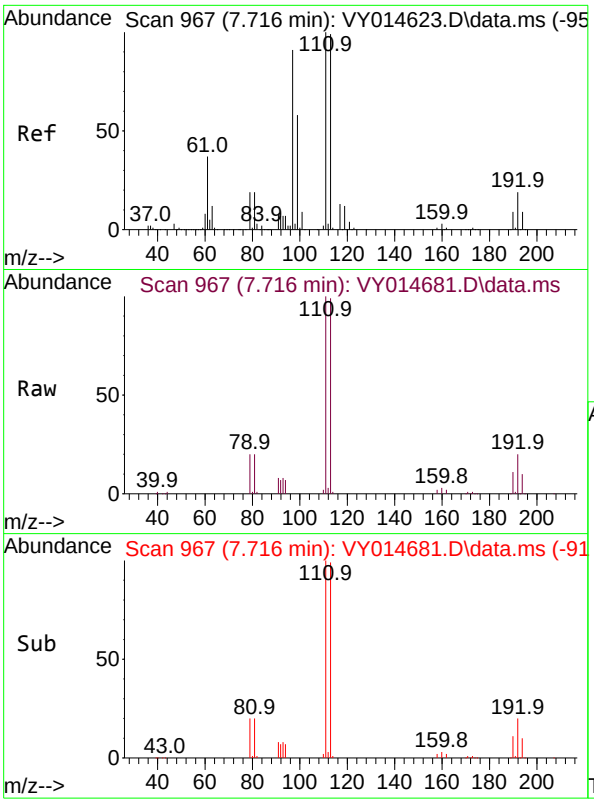


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Tgt Ion:114 Resp: 367151

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.4
88	15.1	0.0	30.6



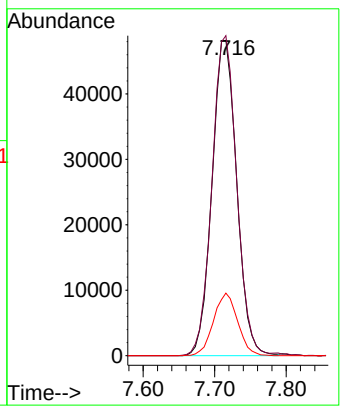


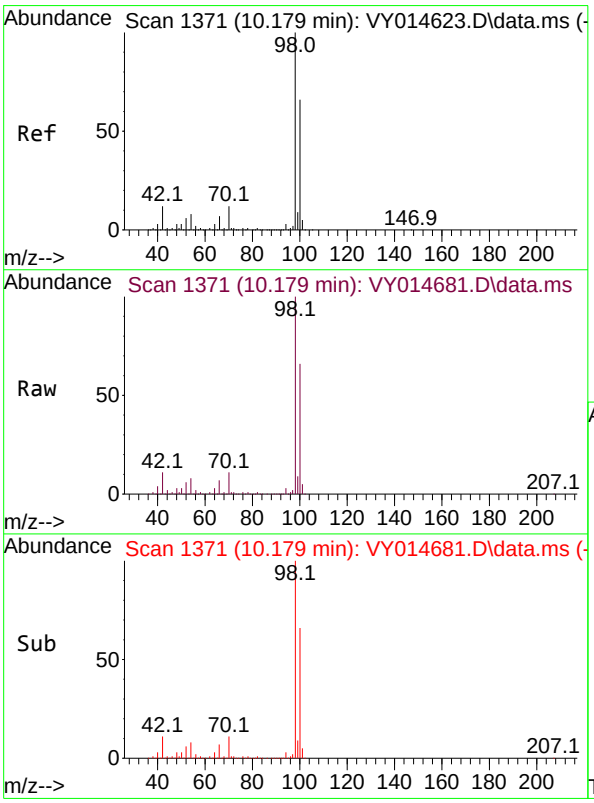
#35
Dibromofluoromethane
Concen: 49.505 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Tgt Ion:113 Resp: 115703

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	19.4	16.9	25.3

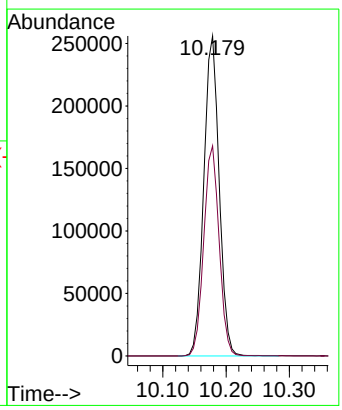


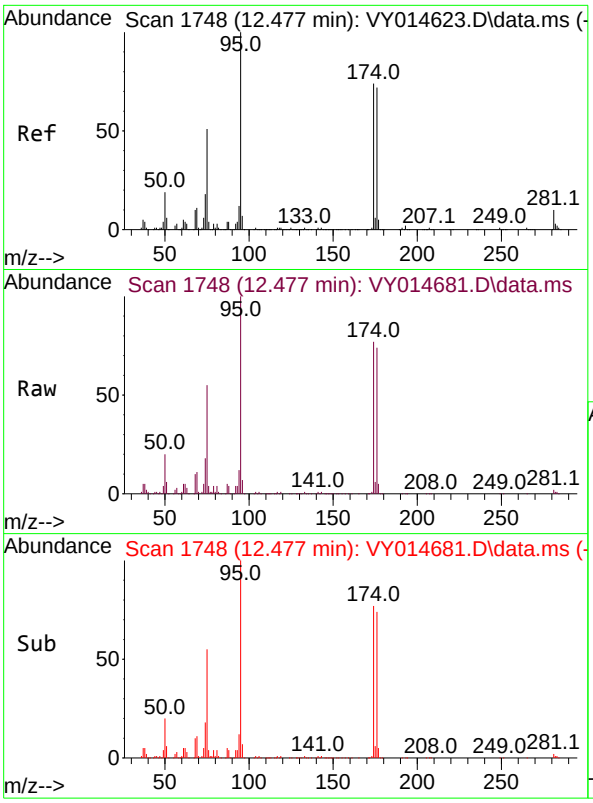


#50
Toluene-d8
Concen: 50.249 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Tgt Ion: 98 Resp: 432982

Ion	Ratio	Lower	Upper
98	100		
100	65.7	50.1	75.1



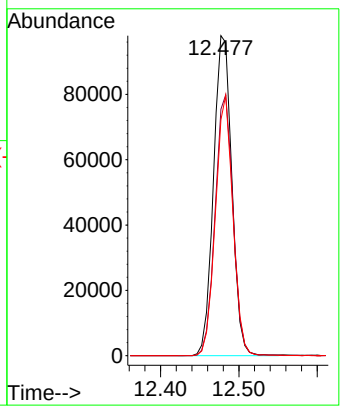


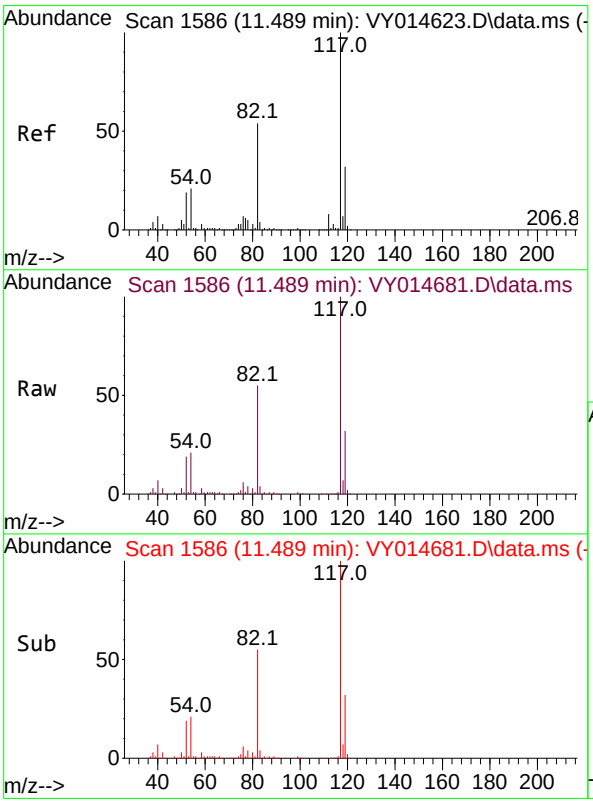
#62
4-Bromofluorobenzene
Concen: 48.230 ug/l
RT: 12.477 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Tgt Ion: 95 Resp: 159350

Ion	Ratio	Lower	Upper
95	100		
174	80.0	0.0	178.2
176	77.6	0.0	173.8

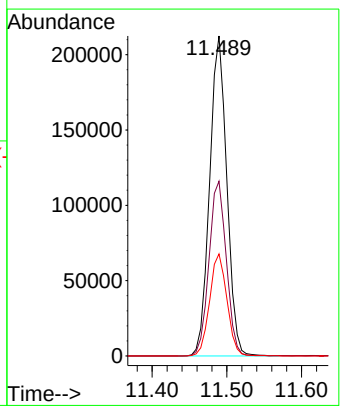


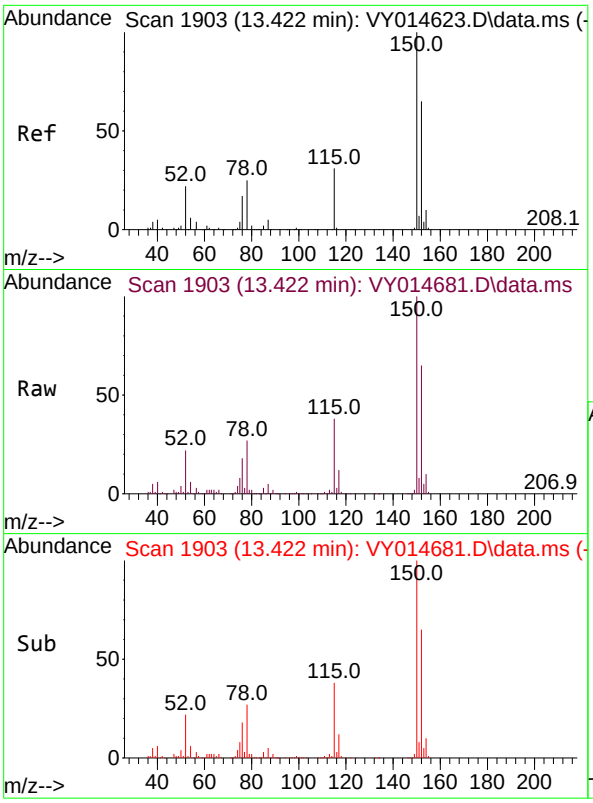


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Tgt Ion:117 Resp: 338917

Ion	Ratio	Lower	Upper
117	100		
82	54.6	43.4	65.0
119	31.9	26.3	39.5



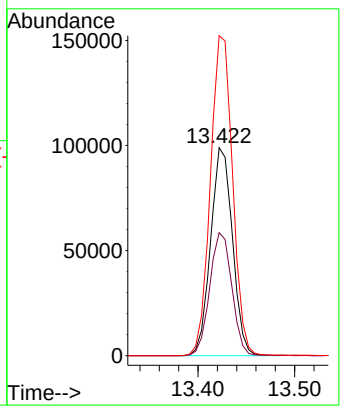


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014681.D
Acq: 17 Jul 2023 18:41

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Tgt Ion:152 Resp: 155439

Ion	Ratio	Lower	Upper
152	100		
115	59.9	28.8	86.5
150	156.2	0.0	348.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014681.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.107	43	47	52	rBV2	5665	11842	1.04%	0.189%
2	4.710	462	474	492	rBV	25149	81513	7.16%	1.299%
3	5.740	632	643	655	rBV3	6510	20885	1.83%	0.333%
4	7.716	957	967	972	rBV2	160683	381445	33.49%	6.079%
5	7.783	972	978	992	rVB	264851	610779	53.62%	9.733%
6	8.136	1027	1036	1047	rBV2	165043	366618	32.19%	5.842%
7	8.685	1118	1126	1139	rBV	418663	834848	73.29%	13.304%
8	10.179	1362	1371	1380	rBV	666300	1139062	100.00%	18.152%
9	11.489	1577	1586	1598	rBV	632161	1020515	89.59%	16.263%
10	12.483	1741	1749	1758	rBV	495122	815144	71.56%	12.990%
11	13.422	1897	1903	1912	rVB	603043	945736	83.03%	15.071%
12	13.526	1916	1920	1928	rVB2	7331	11576	1.02%	0.184%
13	13.782	1954	1962	1967	rBV3	6614	12555	1.10%	0.200%
14	13.965	1986	1992	1997	rVB2	14047	22570	1.98%	0.360%

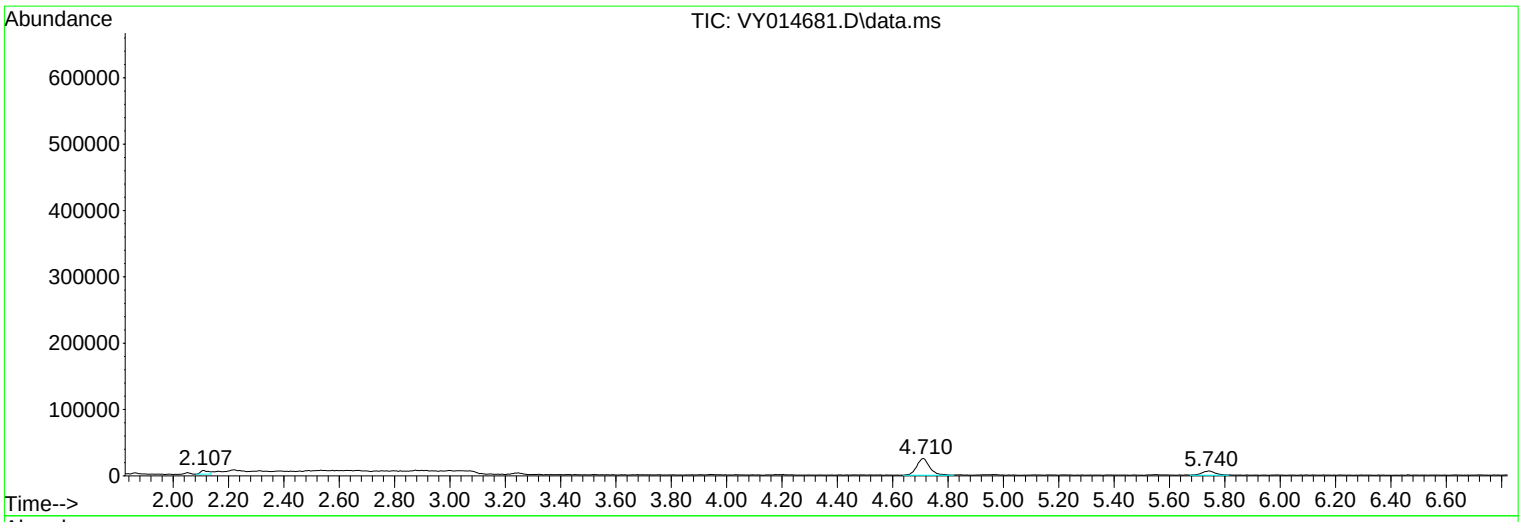
Sum of corrected areas: 6275088

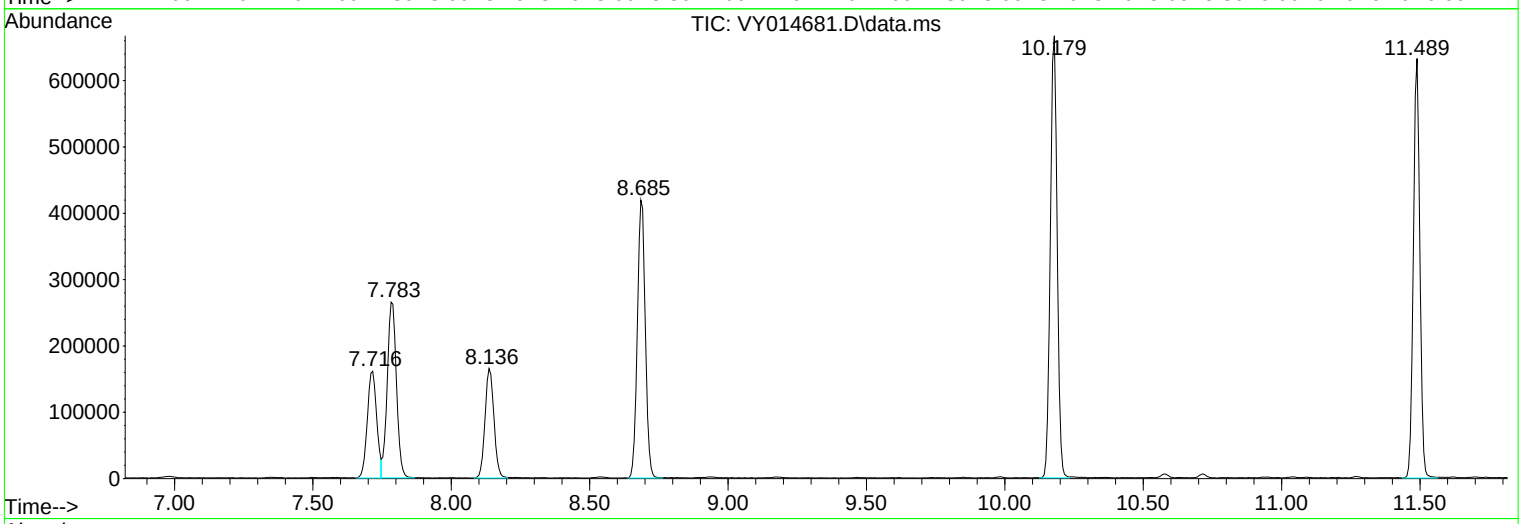
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

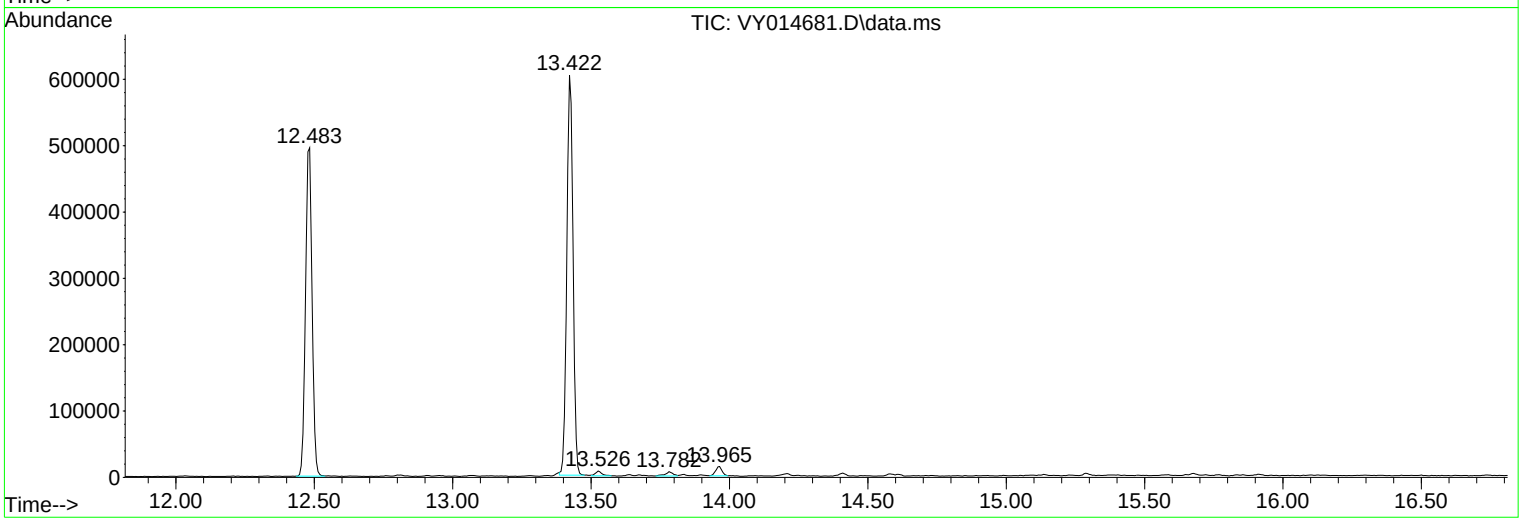
Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014681.D
Acq On : 17 Jul 2023 18:41
Operator : SY/MD
Sample : 03631-07
Misc : 5.96g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-10(5-6)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-11(3.5-4.5)	SDG No.:	O3631
Lab Sample ID:	O3631-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.4
Sample Wt/Vol:	5.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014682.D	1		07/17/23 19:05	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.30	U	1.70	5.30	ug/Kg
74-87-3	Chloromethane	1.20	J	0.97	5.30	ug/Kg
75-01-4	Vinyl Chloride	5.30	U	0.99	5.30	ug/Kg
74-83-9	Bromomethane	5.30	U	1.30	5.30	ug/Kg
75-00-3	Chloroethane	5.30	U	0.94	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	5.30	U	1.10	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.30	U	0.77	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	5.30	U	0.84	5.30	ug/Kg
67-64-1	Acetone	140		10.0	26.7	ug/Kg
75-15-0	Carbon Disulfide	5.30	U	2.30	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.30	U	0.69	5.30	ug/Kg
79-20-9	Methyl Acetate	5.30	U	1.70	5.30	ug/Kg
75-09-2	Methylene Chloride	10.7	U	6.50	10.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.30	U	0.78	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	5.30	U	0.77	5.30	ug/Kg
110-82-7	Cyclohexane	5.30	U	0.75	5.30	ug/Kg
78-93-3	2-Butanone	26.7	U	7.80	26.7	ug/Kg
56-23-5	Carbon Tetrachloride	5.30	U	0.83	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.30	U	0.68	5.30	ug/Kg
74-97-5	Bromochloromethane	5.30	U	2.50	5.30	ug/Kg
67-66-3	Chloroform	5.30	U	1.40	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.30	U	0.81	5.30	ug/Kg
108-87-2	Methylcyclohexane	5.30	U	3.60	5.30	ug/Kg
71-43-2	Benzene	5.30	U	0.70	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	5.30	U	0.77	5.30	ug/Kg
79-01-6	Trichloroethene	5.30	U	0.70	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	5.30	U	0.63	5.30	ug/Kg
75-27-4	Bromodichloromethane	5.30	U	0.75	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	26.7	U	4.80	26.7	ug/Kg
108-88-3	Toluene	5.30	U	0.69	5.30	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-11(3.5-4.5)	SDG No.:	O3631
Lab Sample ID:	O3631-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.4
Sample Wt/Vol:	5.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014682.D	1		07/17/23 19:05	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	5.30	U	0.82	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.30	U	0.79	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.30	U	0.92	5.30	ug/Kg
591-78-6	2-Hexanone	26.7	U	5.60	26.7	ug/Kg
124-48-1	Dibromochloromethane	5.30	U	0.91	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	5.30	U	0.84	5.30	ug/Kg
127-18-4	Tetrachloroethene	5.30	U	0.82	5.30	ug/Kg
108-90-7	Chlorobenzene	5.30	U	0.67	5.30	ug/Kg
100-41-4	Ethyl Benzene	5.30	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	10.7	U	1.50	10.7	ug/Kg
1330-20-7	Total Xylenes	16.0	U	2.32	16.0	ug/Kg
95-47-6	o-Xylene	5.30	U	0.82	5.30	ug/Kg
100-42-5	Styrene	5.30	U	0.74	5.30	ug/Kg
75-25-2	Bromoform	5.30	U	1.00	5.30	ug/Kg
98-82-8	Isopropylbenzene	5.30	U	0.76	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.30	U	1.10	5.30	ug/Kg
103-65-1	n-propylbenzene	5.30	U	0.75	5.30	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.30	U	0.68	5.30	ug/Kg
98-06-6	tert-Butylbenzene	5.30	U	0.82	5.30	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.30	U	0.71	5.30	ug/Kg
135-98-8	sec-Butylbenzene	5.30	U	0.82	5.30	ug/Kg
99-87-6	p-Isopropyltoluene	5.30	U	0.79	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.30	U	0.73	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.30	U	0.64	5.30	ug/Kg
104-51-8	n-Butylbenzene	5.30	U	0.73	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.30	U	0.64	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.30	U	1.30	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.30	U	0.65	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.30	U	0.67	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		50 - 163	107%	SPK: 50

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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-11(3.5-4.5)	SDG No.:	O3631
Lab Sample ID:	O3631-08	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	91.4
Sample Wt/Vol:	5.13 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014682.D	1		07/17/23 19:05	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	49.7		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	50.7		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		30 - 143	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	215000	7.789			
540-36-3	1,4-Difluorobenzene	375000	8.685			
3114-55-4	Chlorobenzene-d5	349000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.422			
TENTATIVE IDENTIFIED COMPOUNDS						
000080-56-8	.alpha.-Pinene	29.6	J		12.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Quant Time: Jul 18 06:13:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

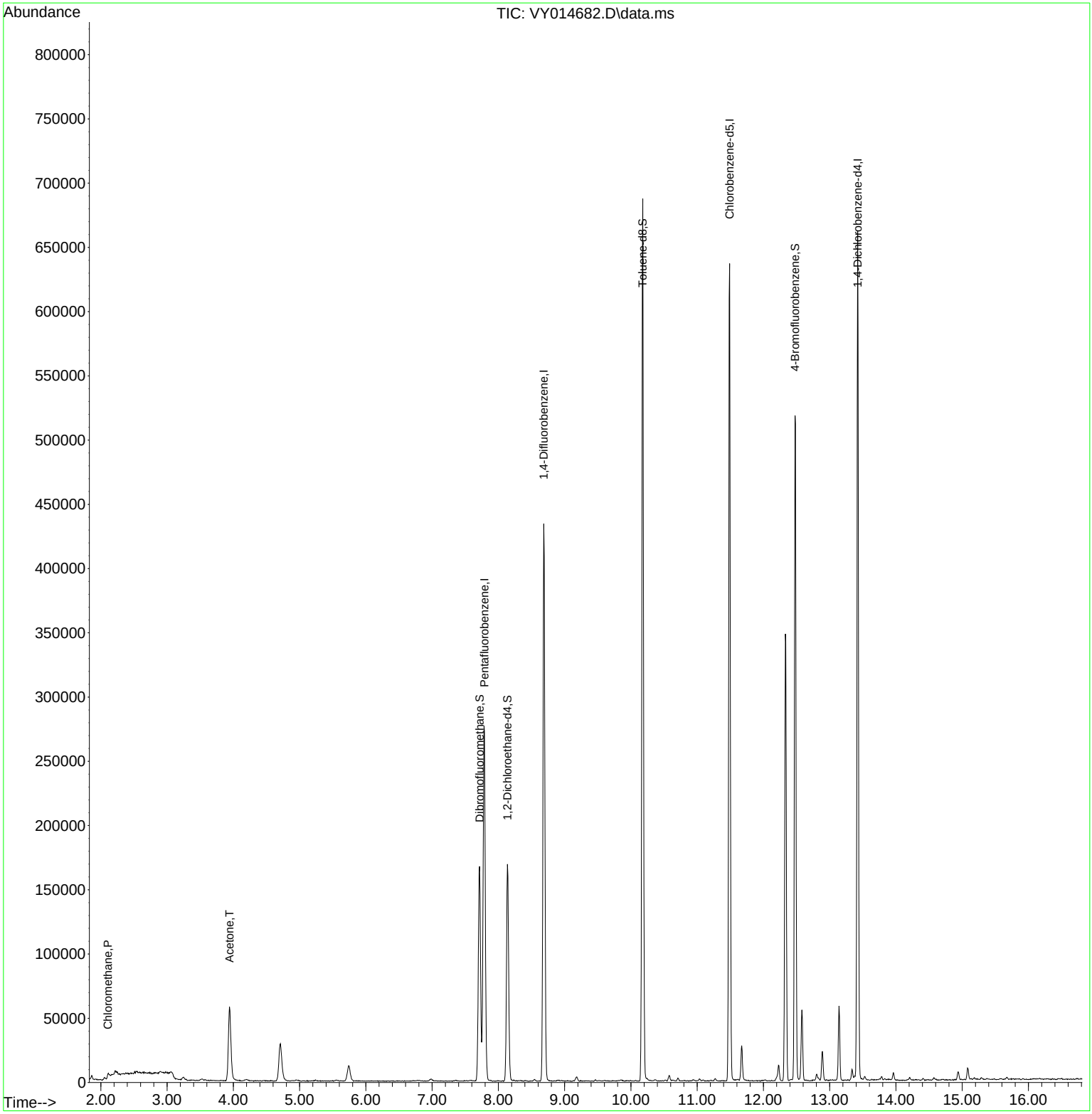
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	215322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	375483	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	349352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	164868	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	131862	53.741	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.480%			
35) Dibromofluoromethane	7.716	113	118819	49.710	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.420%			
50) Toluene-d8	10.179	98	447151	50.742	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.480%			
62) 4-Bromofluorobenzene	12.477	95	168929	49.994	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.980%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	2229	1.130	ug/l	97
16) Acetone	3.942	43	99239	127.632	ug/l	91

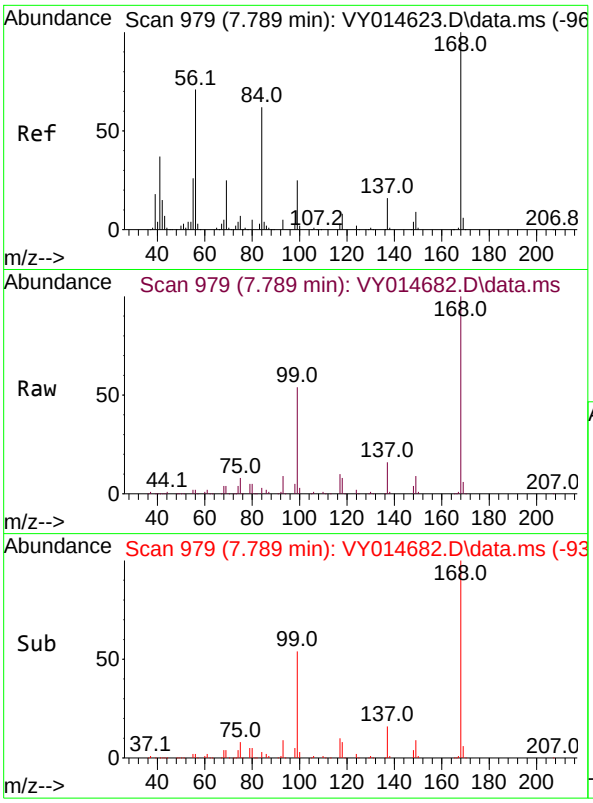
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Quant Time: Jul 18 06:13:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



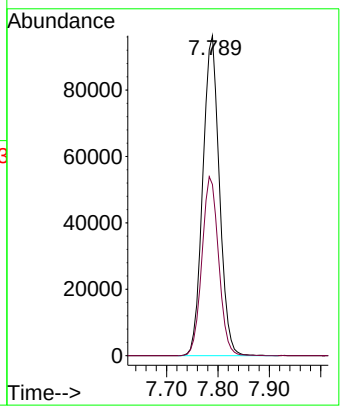


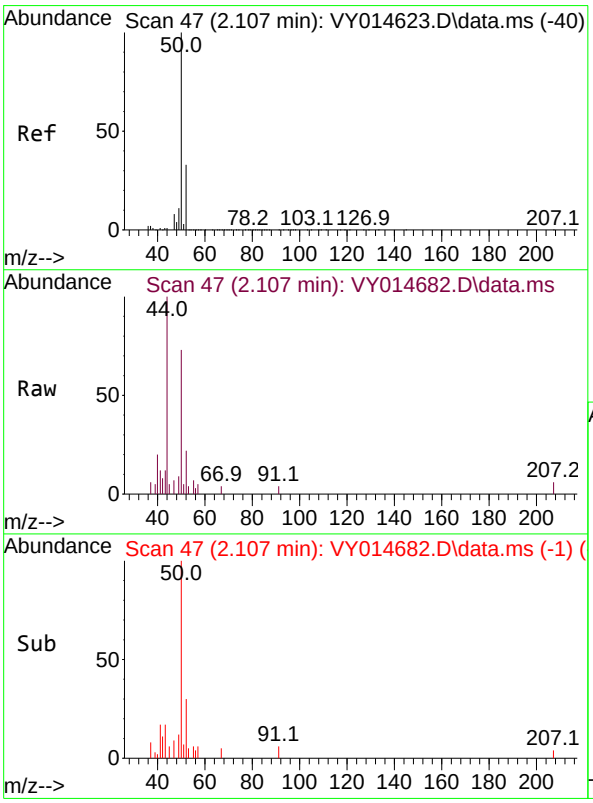
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Tgt Ion:168 Resp: 215322

Ion	Ratio	Lower	Upper
168	100		
99	53.5	43.4	65.0

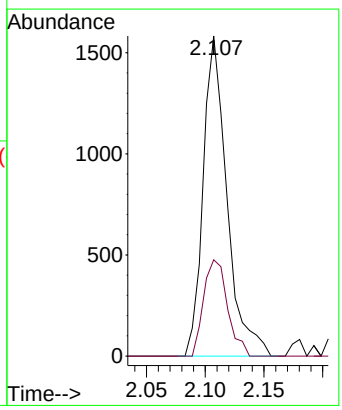


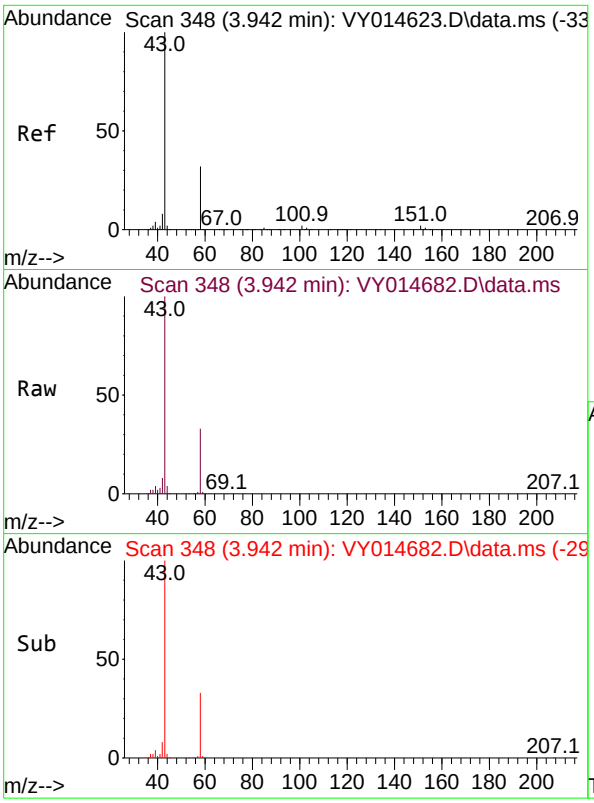


#3
Chloromethane
Concen: 1.130 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Tgt Ion: 50 Resp: 2229

Ion	Ratio	Lower	Upper
50	100		
52	30.1	25.4	38.2



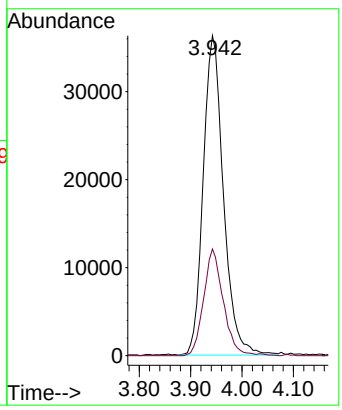


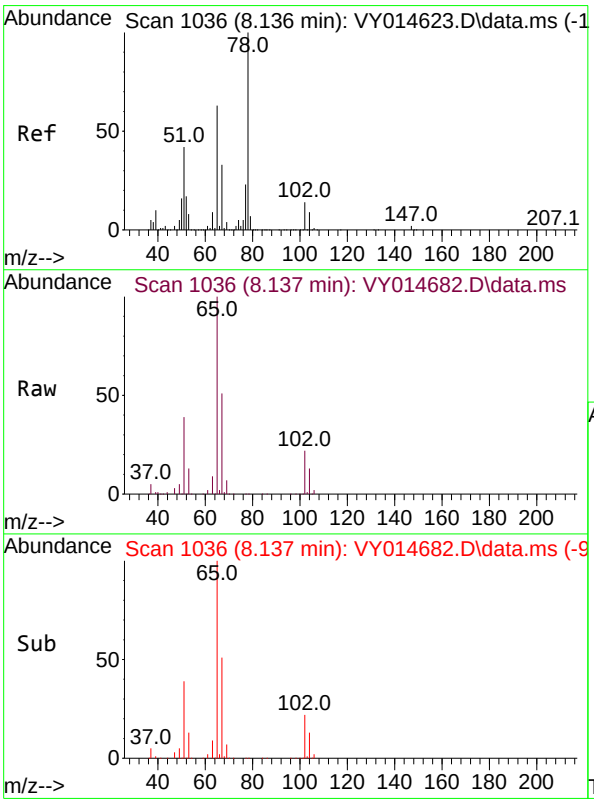
#16
Acetone
Concen: 127.632 ug/l
RT: 3.942 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Tgt Ion: 43 Resp: 99239

Ion	Ratio	Lower	Upper
43	100		
58	33.4	22.7	34.1

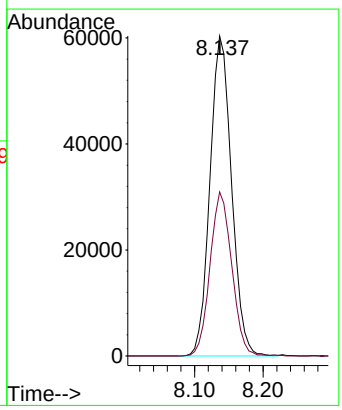


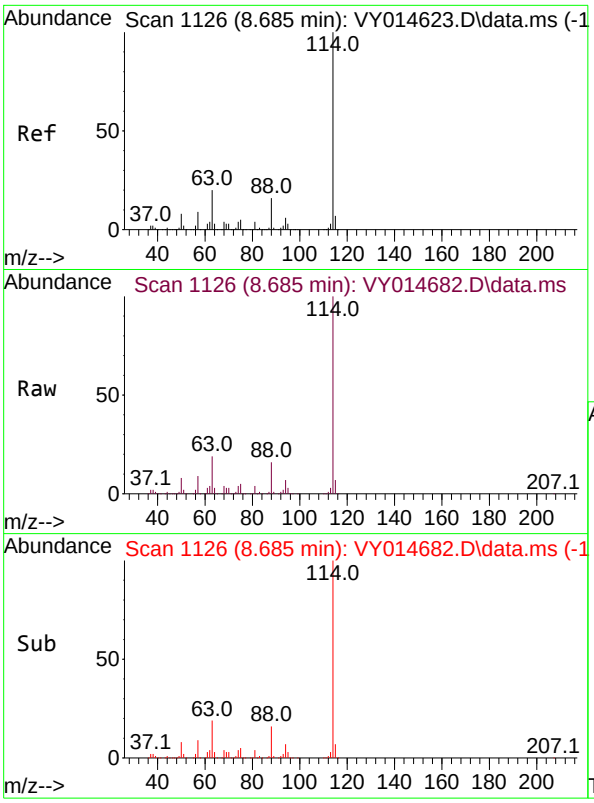


#33
1,2-Dichloroethane-d4
Concen: 53.741 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Tgt Ion: 65 Resp: 131862

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	101.8



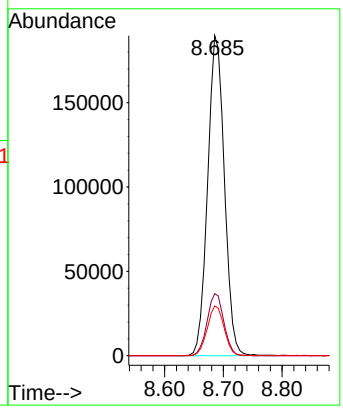


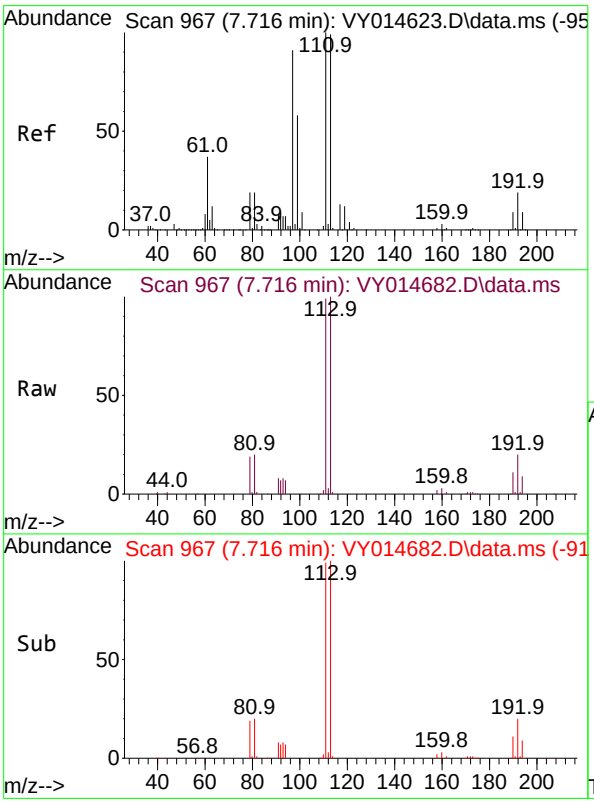
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Tgt Ion:114 Resp: 375483

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.4
88	15.6	0.0	30.6

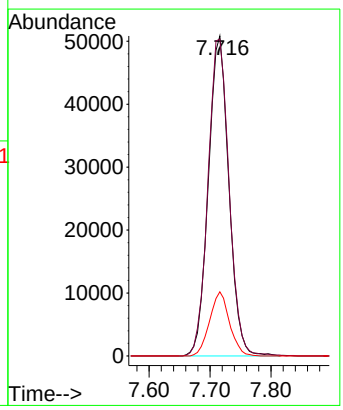


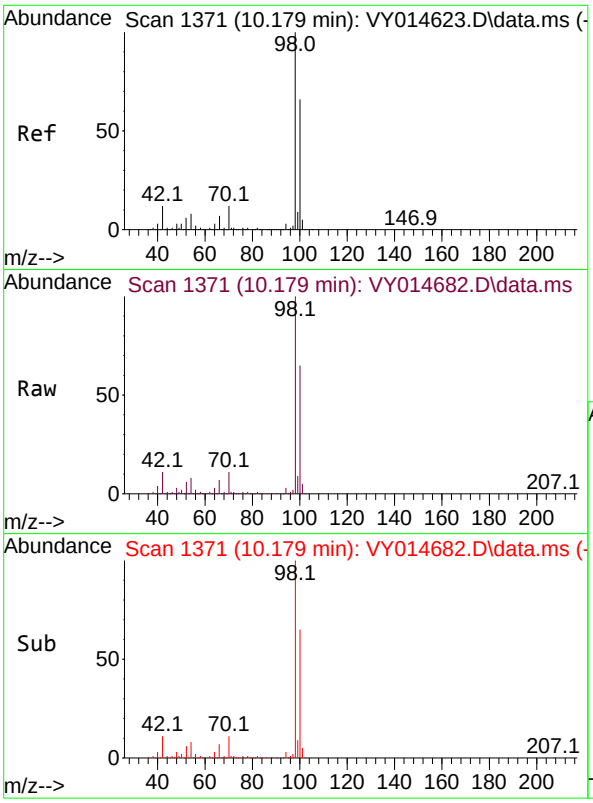


#35
Dibromofluoromethane
Concen: 49.710 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Tgt Ion:113 Resp: 118819

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	19.4	16.9	25.3



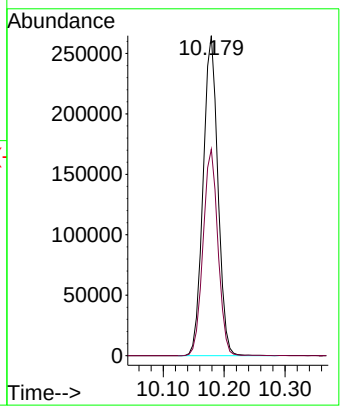


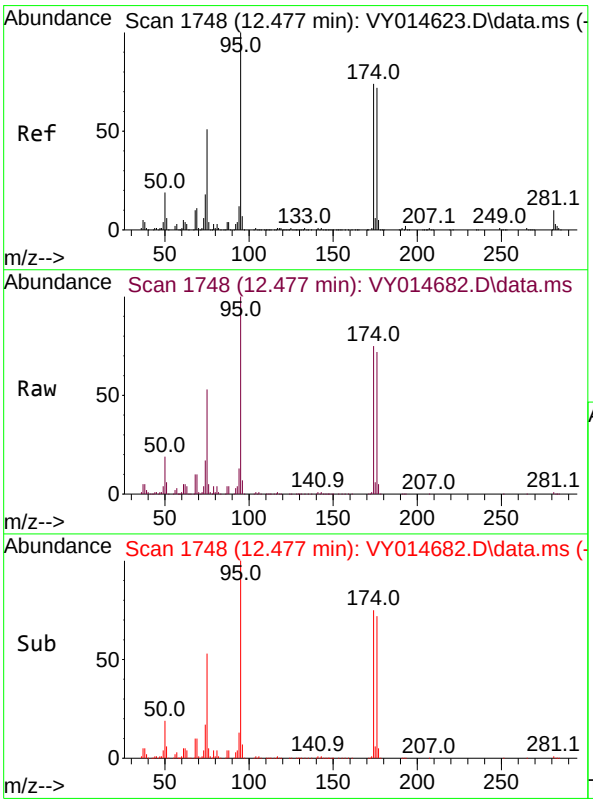
#50
Toluene-d8
Concen: 50.742 ug/l
RT: 10.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Tgt Ion: 98 Resp: 447151

Ion	Ratio	Lower	Upper
98	100		
100	64.9	50.1	75.1

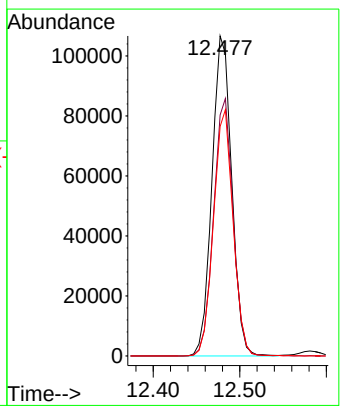


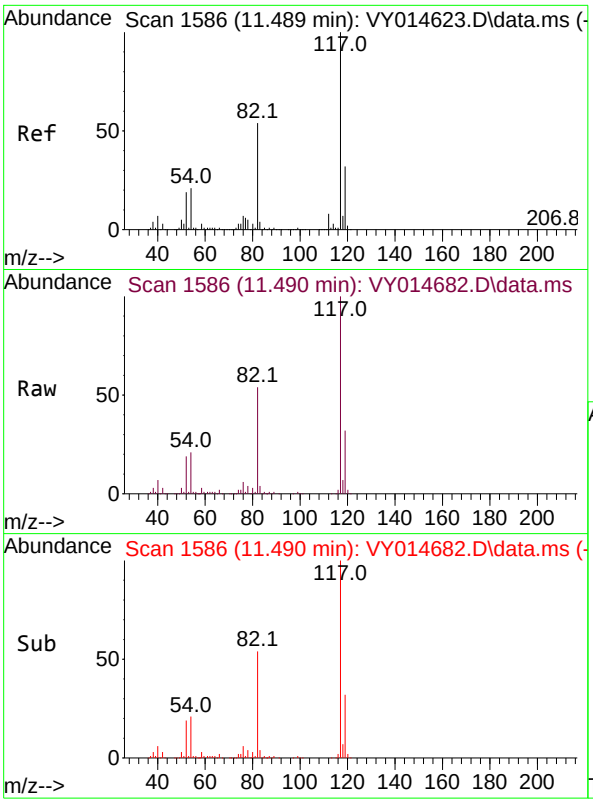


#62
4-Bromofluorobenzene
Concen: 49.994 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Tgt Ion: 95 Resp: 168929

Ion	Ratio	Lower	Upper
95	100		
174	79.5	0.0	178.2
176	76.4	0.0	173.8



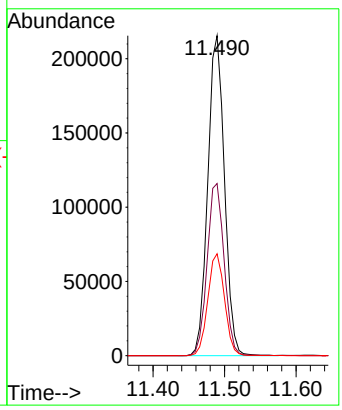


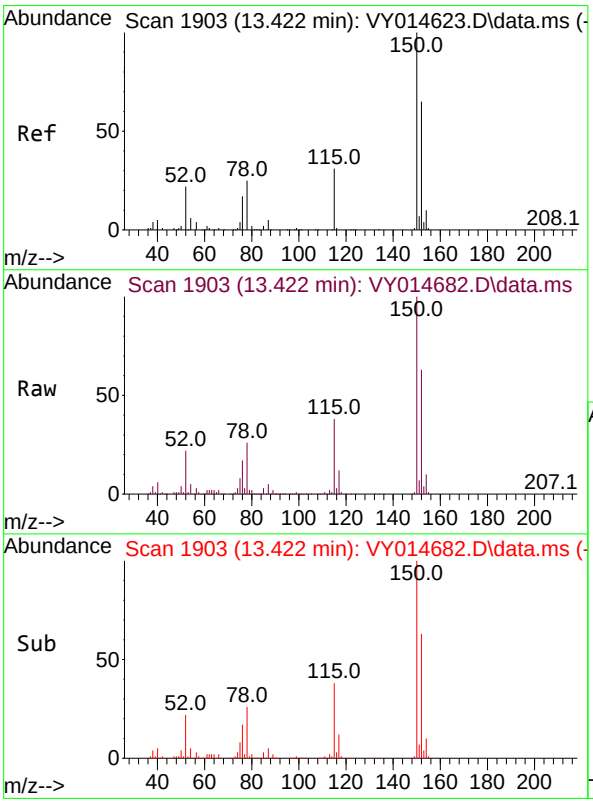
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Tgt Ion:117 Resp: 349352

Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.4	65.0
119	31.9	26.3	39.5

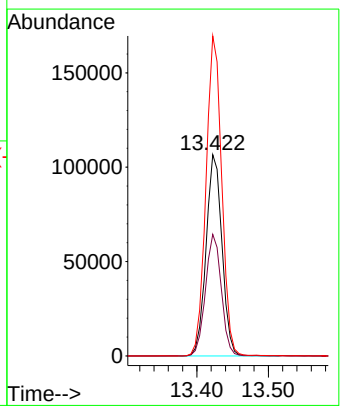




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014682.D
Acq: 17 Jul 2023 19:05

Tgt Ion:152 Resp: 164868

Ion	Ratio	Lower	Upper
152	100		
115	60.1	28.8	86.5
150	157.5	0.0	348.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014682.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.942	339	348	363	rBV	57540	156959	13.34%	2.087%
2	4.710	462	474	488	rBV	28947	94036	7.99%	1.251%
3	5.741	632	643	655	rVB2	12090	38643	3.28%	0.514%
4	7.716	955	967	972	rBV	167071	390103	33.15%	5.188%
5	7.783	972	978	994	rVB	276265	633646	53.84%	8.427%
6	8.137	1026	1036	1049	rBV	169037	372292	31.63%	4.951%
7	8.685	1117	1126	1139	rBV	433918	857724	72.88%	11.407%
8	10.179	1363	1371	1381	rBV	686660	1176957	100.00%	15.652%
9	11.490	1578	1586	1600	rBV	636129	1048242	89.06%	13.941%
10	11.673	1610	1616	1625	rBV2	27047	45442	3.86%	0.604%
11	12.227	1698	1707	1714	rBV	12132	24457	2.08%	0.325%
12	12.331	1716	1724	1732	rBV	347825	582142	49.46%	7.742%
13	12.477	1741	1748	1757	rBV	516984	838543	71.25%	11.152%
14	12.581	1757	1765	1771	rVB	54672	90445	7.68%	1.203%
15	12.892	1810	1816	1823	rVB	22431	38070	3.23%	0.506%
16	13.142	1849	1857	1865	rBV2	57975	90185	7.66%	1.199%
17	13.337	1883	1889	1893	rBV2	8747	15333	1.30%	0.204%
18	13.422	1897	1903	1912	rVB	660121	1009474	85.77%	13.425%
19	15.080	2170	2175	2181	rBV	9261	16602	1.41%	0.221%

Sum of corrected areas: 7519295

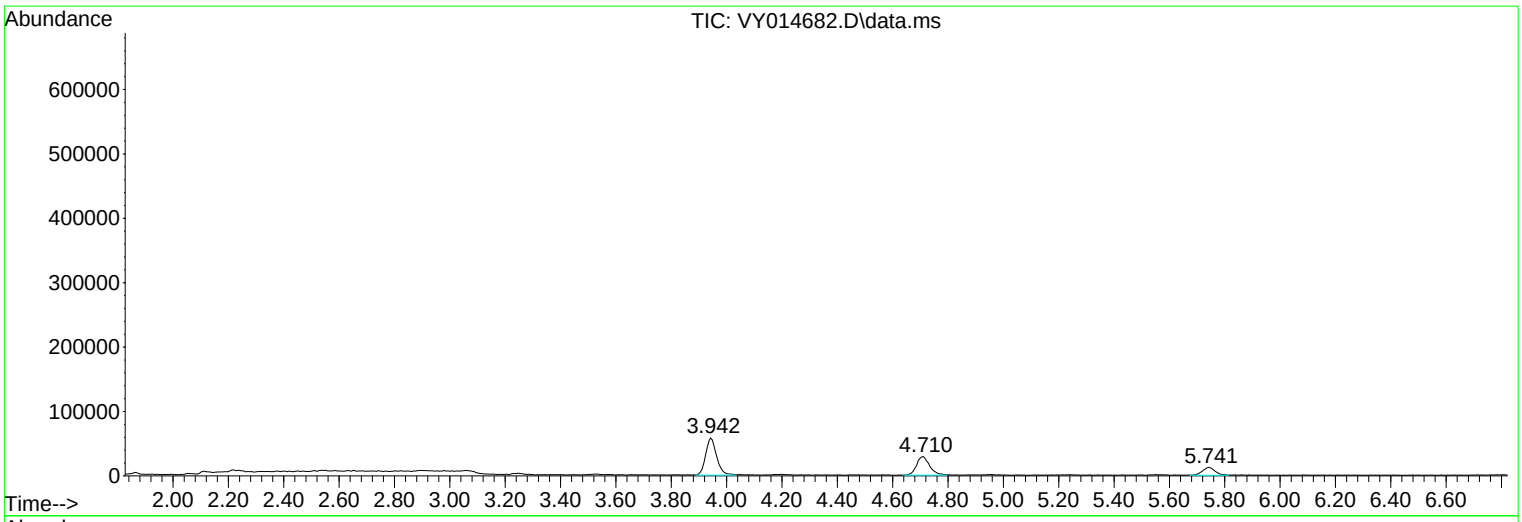
Sample Results: **VY014682.D**

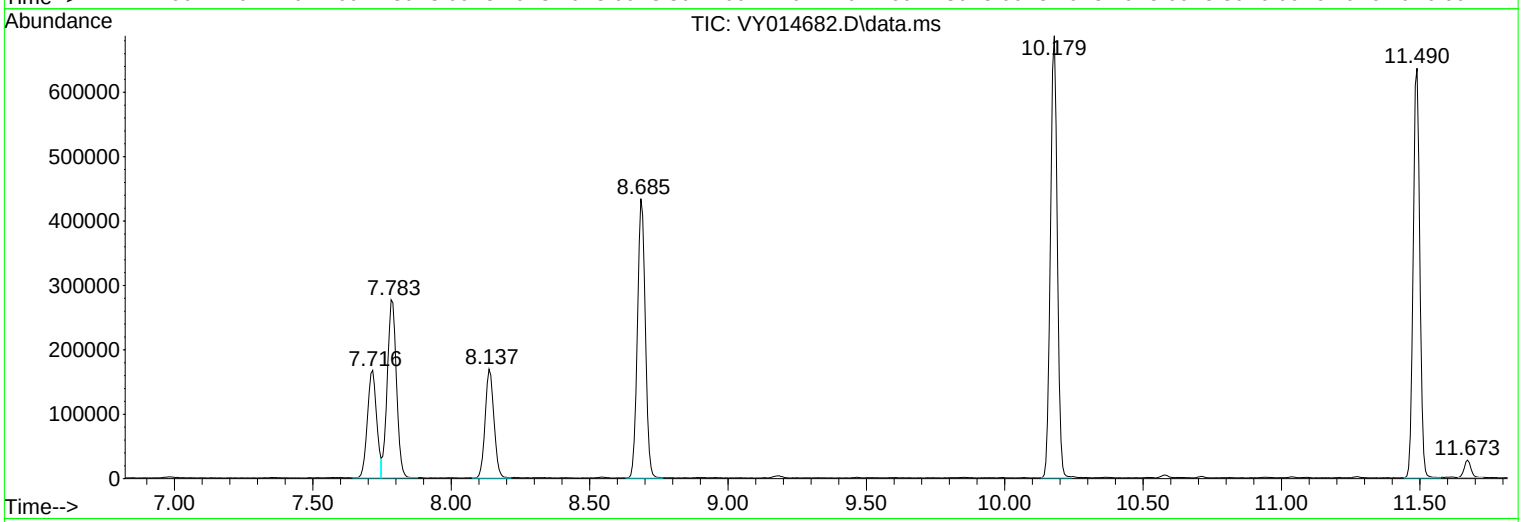
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

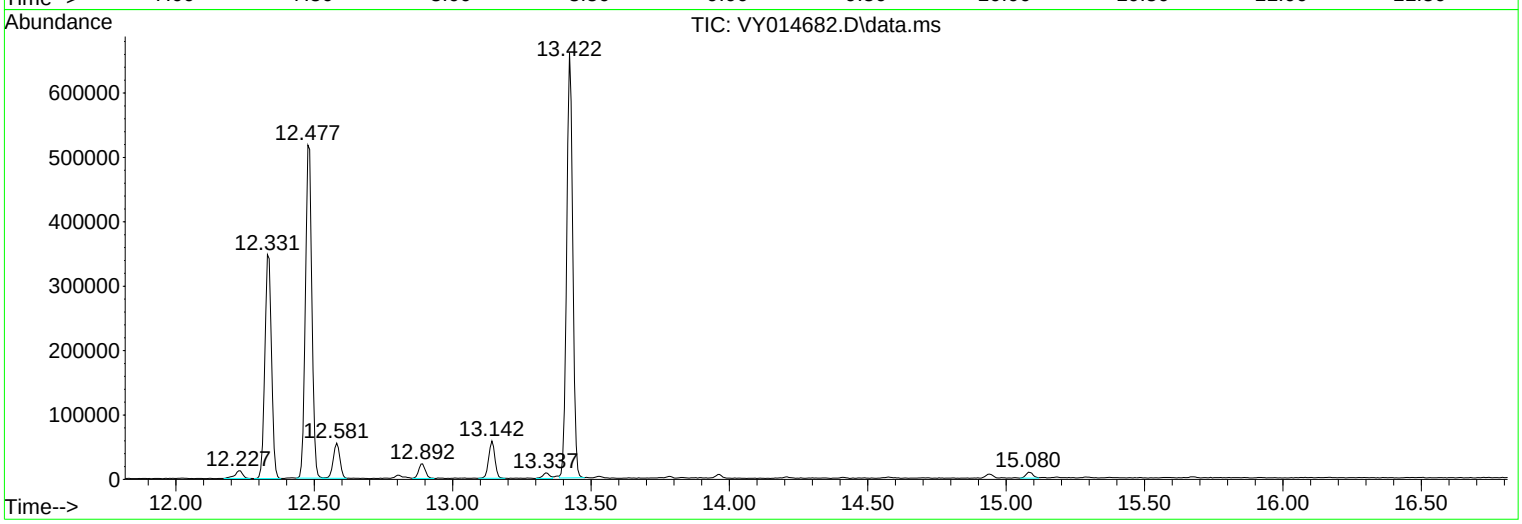
Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

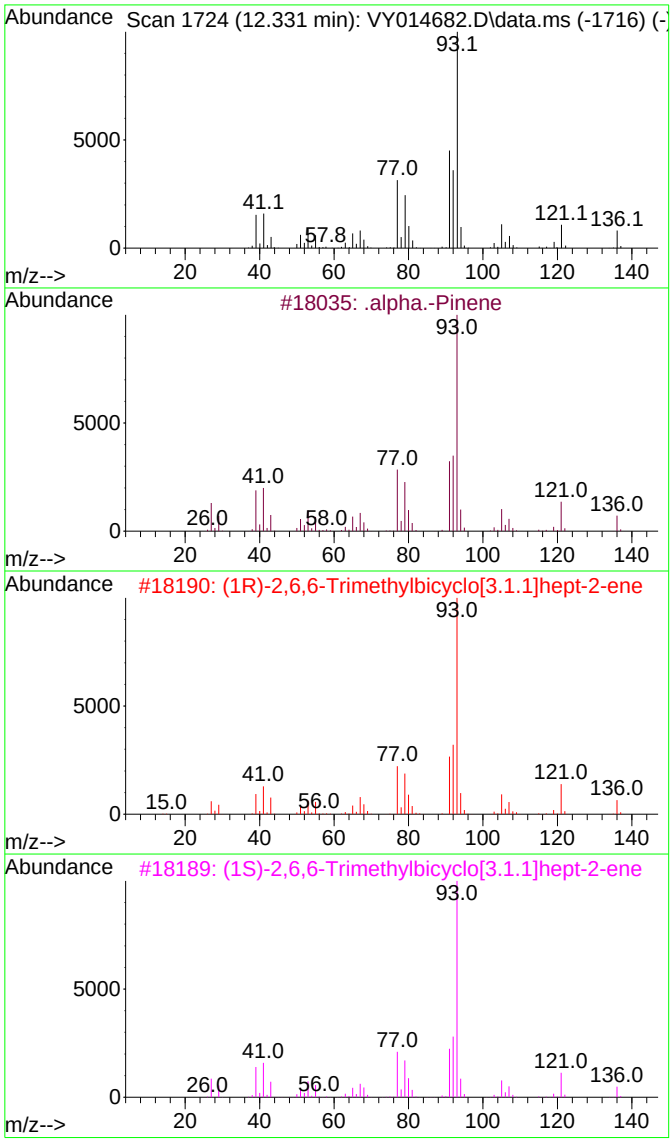
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

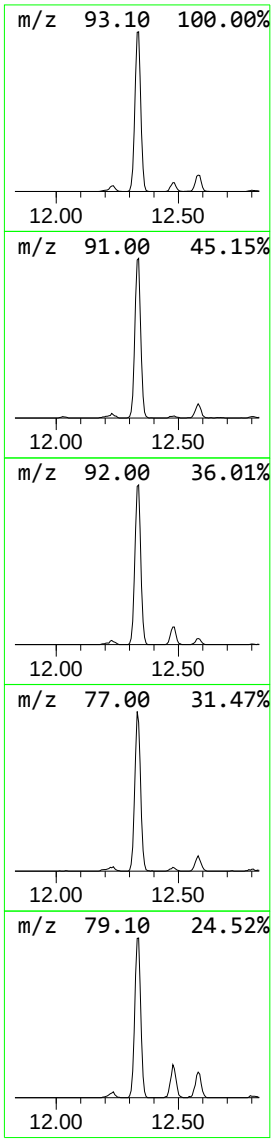
****

Peak Number 1 .alpha.-Pinene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.331	27.77 ug/l	582142	Chlorobenzene-d5	11.490

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	96
2	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	95
3	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	94
4	3-Carene	136	C10H16	013466-78-9	91
5	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014682.D
Acq On : 17 Jul 2023 19:05
Operator : SY/MD
Sample : 03631-08
Misc : 5.13g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-11(3.5-4.5)

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
.alpha.-Pinene	12.331	27.8	ug/l	582142	3	11.490	1048240	50.0

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	DUP	SDG No.:	O3631
Lab Sample ID:	O3631-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	7.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014683.D	1		07/17/23 19:28	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	3.70	U	1.20	3.70	ug/Kg
74-87-3	Chloromethane	0.76	J	0.67	3.70	ug/Kg
75-01-4	Vinyl Chloride	3.70	U	0.68	3.70	ug/Kg
74-83-9	Bromomethane	3.70	U	0.89	3.70	ug/Kg
75-00-3	Chloroethane	3.70	U	0.65	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	3.70	U	0.78	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	3.70	U	0.53	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	3.70	U	0.58	3.70	ug/Kg
67-64-1	Acetone	18.4	U	6.90	18.4	ug/Kg
75-15-0	Carbon Disulfide	3.70	U	1.60	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.70	U	0.48	3.70	ug/Kg
79-20-9	Methyl Acetate	3.70	U	1.20	3.70	ug/Kg
75-09-2	Methylene Chloride	7.40	U	4.50	7.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.70	U	0.54	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	3.70	U	0.53	3.70	ug/Kg
110-82-7	Cyclohexane	3.70	U	0.52	3.70	ug/Kg
78-93-3	2-Butanone	18.4	U	5.40	18.4	ug/Kg
56-23-5	Carbon Tetrachloride	3.70	U	0.57	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.70	U	0.47	3.70	ug/Kg
74-97-5	Bromochloromethane	3.70	U	1.70	3.70	ug/Kg
67-66-3	Chloroform	3.70	U	0.97	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.70	U	0.56	3.70	ug/Kg
108-87-2	Methylcyclohexane	3.70	U	2.50	3.70	ug/Kg
71-43-2	Benzene	3.70	U	0.49	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	3.70	U	0.53	3.70	ug/Kg
79-01-6	Trichloroethene	3.70	U	0.49	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	3.70	U	0.43	3.70	ug/Kg
75-27-4	Bromodichloromethane	3.70	U	0.52	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	18.4	U	3.30	18.4	ug/Kg
108-88-3	Toluene	3.70	U	0.48	3.70	ug/Kg

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	DUP	SDG No.:	O3631
Lab Sample ID:	O3631-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	7.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014683.D	1		07/17/23 19:28	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	3.70	U	0.57	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	3.70	U	0.54	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.70	U	0.63	3.70	ug/Kg
591-78-6	2-Hexanone	18.4	U	3.90	18.4	ug/Kg
124-48-1	Dibromochloromethane	3.70	U	0.63	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	3.70	U	0.58	3.70	ug/Kg
127-18-4	Tetrachloroethene	3.70	U	0.57	3.70	ug/Kg
108-90-7	Chlorobenzene	3.70	U	0.46	3.70	ug/Kg
100-41-4	Ethyl Benzene	3.70	U	0.49	3.70	ug/Kg
179601-23-1	m/p-Xylenes	7.40	U	1.00	7.40	ug/Kg
1330-20-7	Total Xylenes	11.1	U	1.57	11.1	ug/Kg
95-47-6	o-Xylene	3.70	U	0.57	3.70	ug/Kg
100-42-5	Styrene	3.70	U	0.51	3.70	ug/Kg
75-25-2	Bromoform	3.70	U	0.70	3.70	ug/Kg
98-82-8	Isopropylbenzene	3.70	U	0.52	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	3.70	U	0.79	3.70	ug/Kg
103-65-1	n-propylbenzene	3.70	U	0.52	3.70	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	3.70	U	0.47	3.70	ug/Kg
98-06-6	tert-Butylbenzene	3.70	U	0.57	3.70	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	3.70	U	0.49	3.70	ug/Kg
135-98-8	sec-Butylbenzene	3.70	U	0.57	3.70	ug/Kg
99-87-6	p-Isopropyltoluene	3.70	U	0.54	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.70	U	0.50	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.70	U	0.44	3.70	ug/Kg
104-51-8	n-Butylbenzene	3.70	U	0.50	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.70	U	0.44	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.70	U	0.88	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.70	U	0.45	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.70	U	0.46	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.7		50 - 163	115%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	DUP	SDG No.:	O3631
Lab Sample ID:	O3631-09	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	7.84 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014683.D	1		07/17/23 19:28	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.8		54 - 147	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		58 - 134	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		30 - 143	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.789			
540-36-3	1,4-Difluorobenzene	363000	8.691			
3114-55-4	Chlorobenzene-d5	346000	11.489			
3855-82-1	1,4-Dichlorobenzene-d4	168000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Quant Time: Jul 18 06:13:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

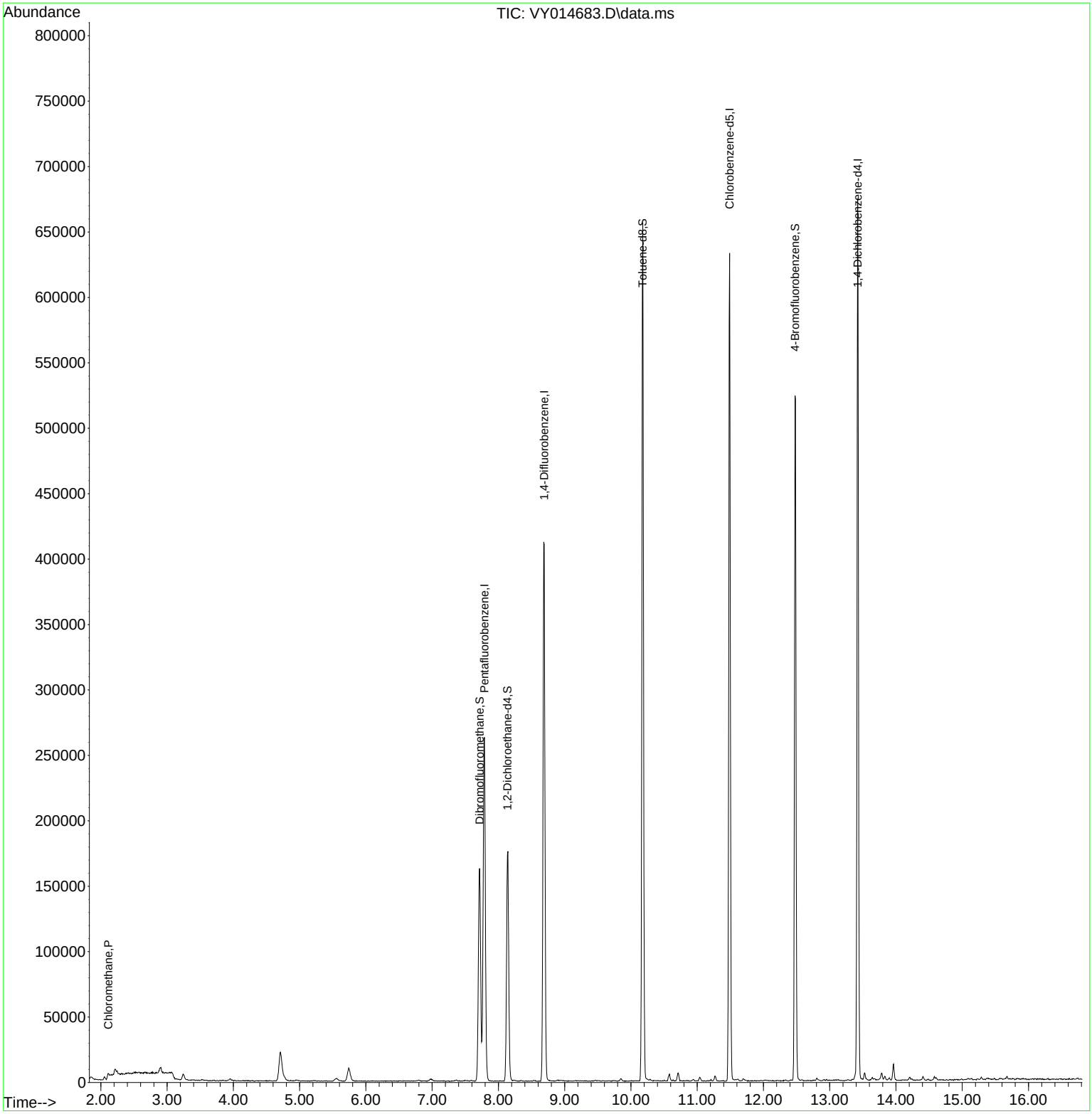
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	208622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	362791	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	345625	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	168156	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	137154	57.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.380%			
35) Dibromofluoromethane	7.716	113	117253	50.771	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.540%			
50) Toluene-d8	10.179	98	434070	50.981	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.960%			
62) 4-Bromofluorobenzene	12.477	95	167306	51.246	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.500%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	1971	1.032	ug/l	100

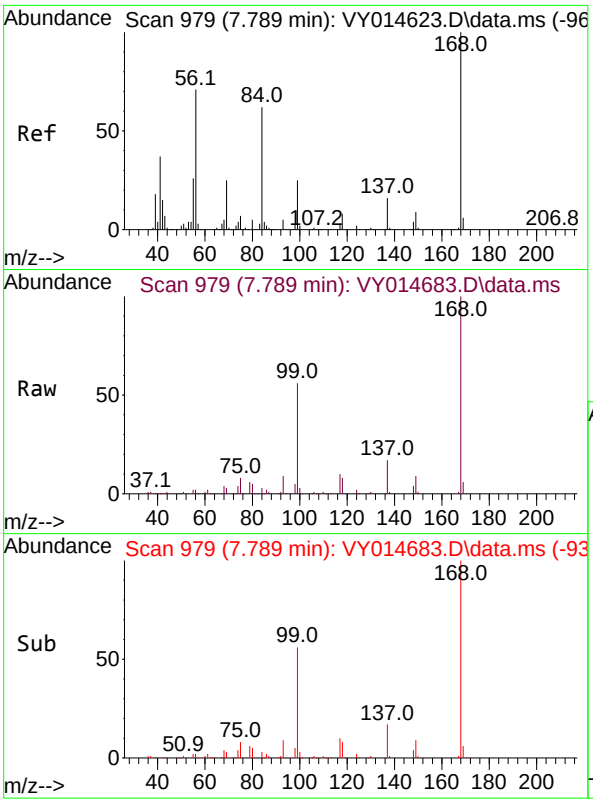
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Quant Time: Jul 18 06:13:55 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



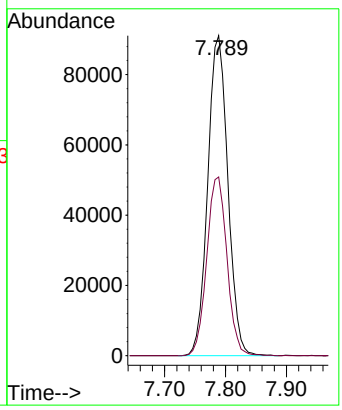


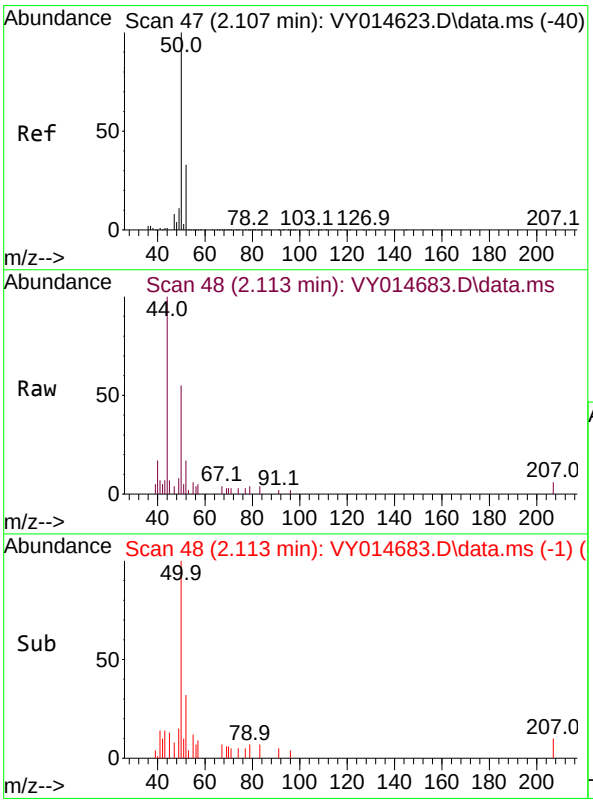
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Tgt Ion:168 Resp: 208622

Ion	Ratio	Lower	Upper
168	100		
99	55.8	43.4	65.0

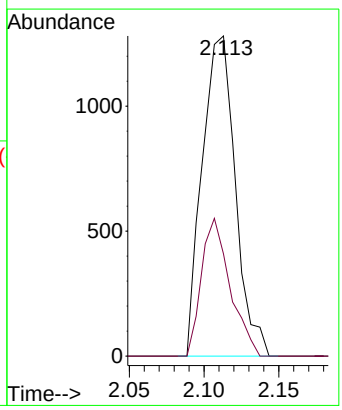


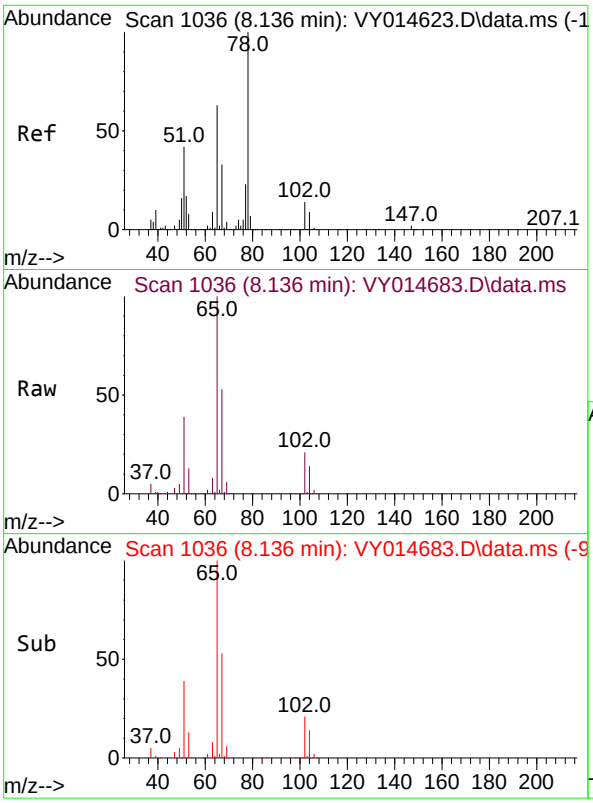


#3
Chloromethane
Concen: 1.032 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Tgt Ion: 50 Resp: 1971

Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.4	38.2



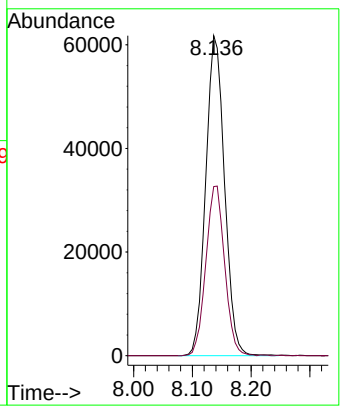


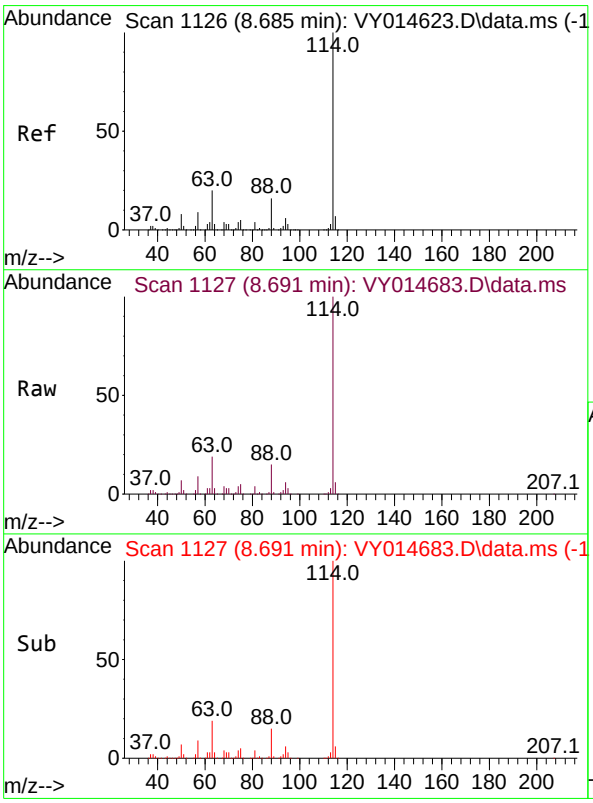
#33
1,2-Dichloroethane-d4
Concen: 57.692 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Tgt Ion: 65 Resp: 137154

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	101.8

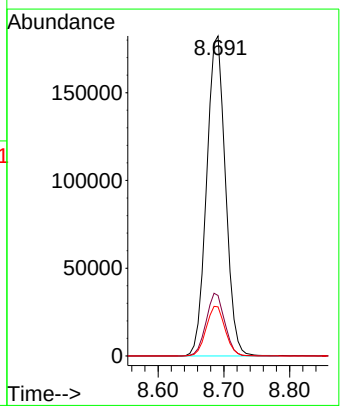


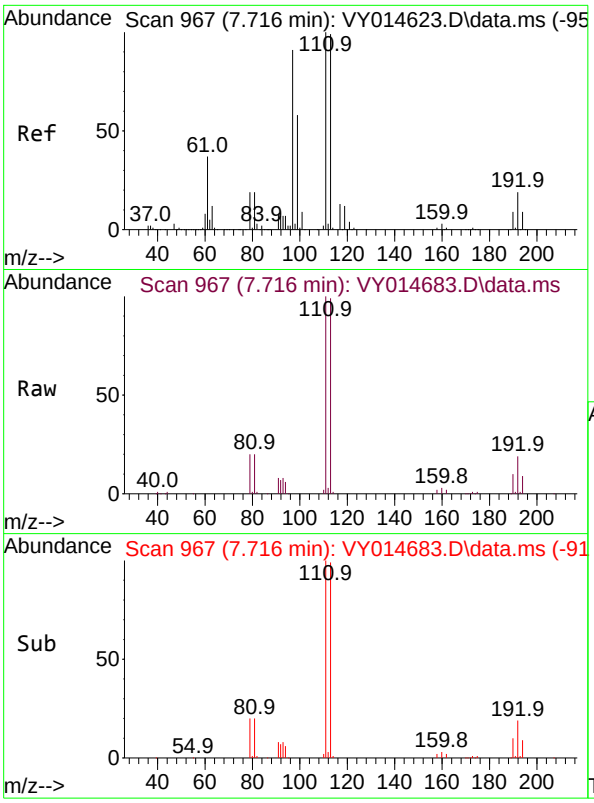


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Tgt Ion:114 Resp: 362791

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	42.4
88	15.4	0.0	30.6



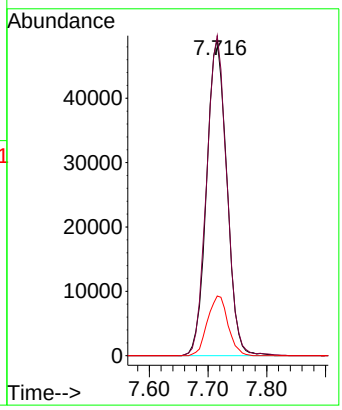


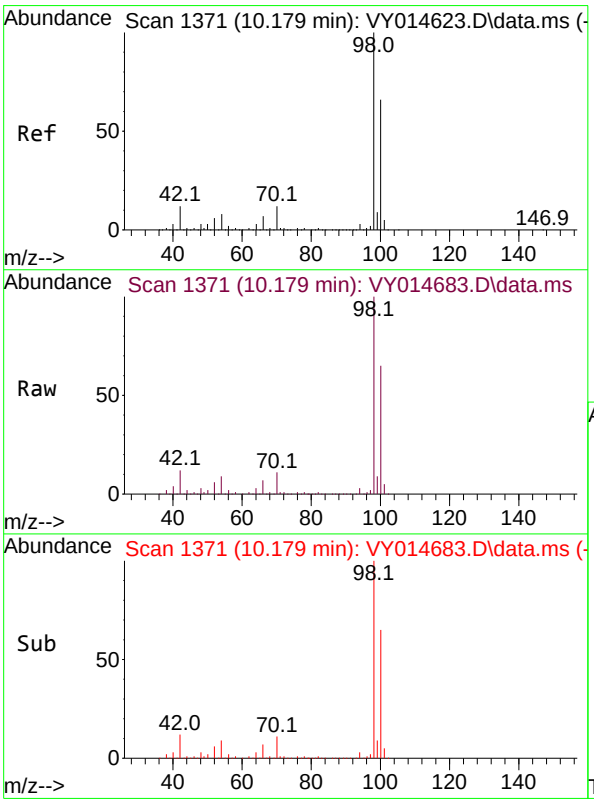
#35
Dibromofluoromethane
Concen: 50.771 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Tgt Ion:113 Resp: 117253

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.3	121.9
192	19.2	16.9	25.3

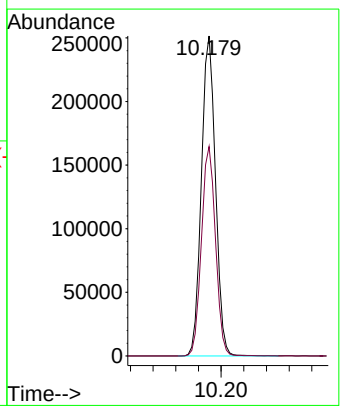


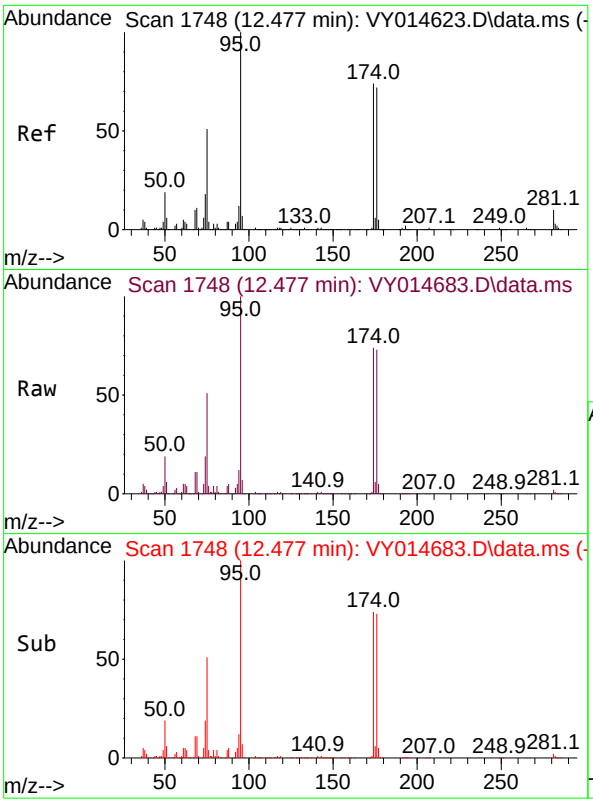


#50
Toluene-d8
Concen: 50.981 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Tgt Ion: 98 Resp: 434070

Ion	Ratio	Lower	Upper
98	100		
100	65.4	50.1	75.1



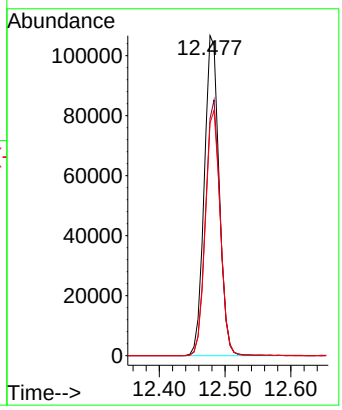


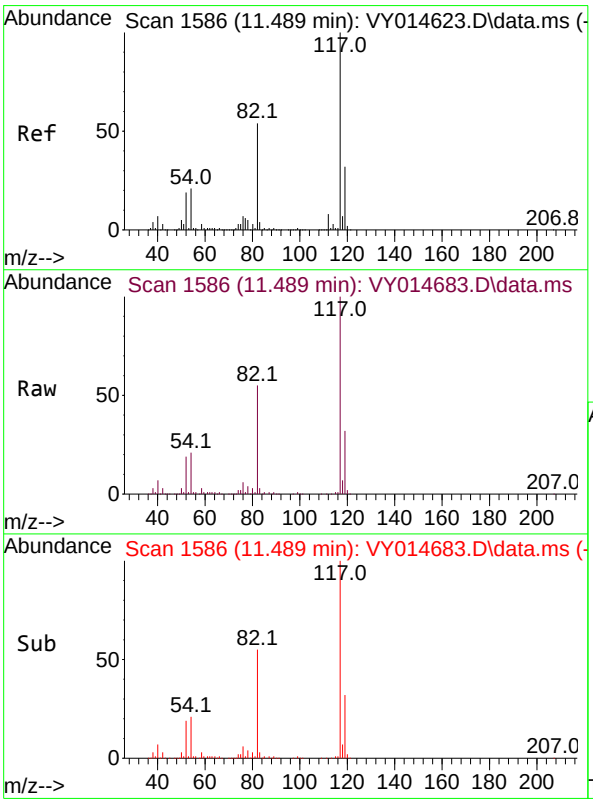
#62
4-Bromofluorobenzene
Concen: 51.246 ug/l
RT: 12.477 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Tgt Ion: 95 Resp: 167306

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	178.2
176	76.9	0.0	173.8

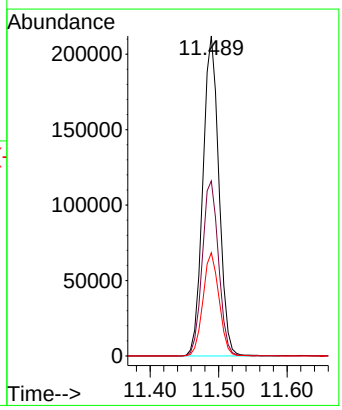


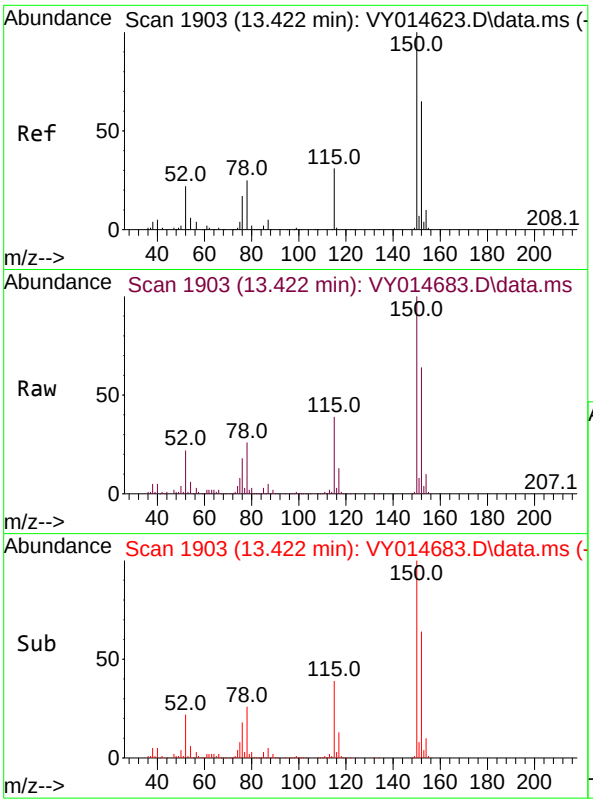


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Tgt Ion:117 Resp: 345625

Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.4	65.0
119	32.3	26.3	39.5



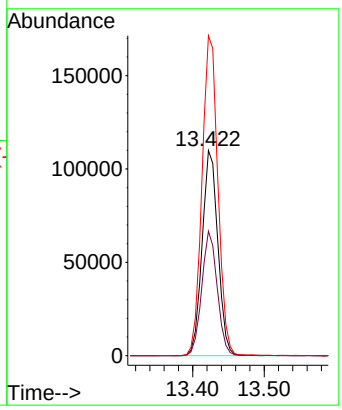


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014683.D
Acq: 17 Jul 2023 19:28

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Tgt Ion:152 Resp: 168156

Ion	Ratio	Lower	Upper
152	100		
115	59.5	28.8	86.5
150	157.5	0.0	348.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014683.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.710	463	474	491	rBV2	21935	77565	6.81%	1.213%
2	5.740	631	643	655	rBV3	10083	32078	2.82%	0.502%
3	7.716	955	967	972	rBV2	162698	384331	33.76%	6.011%
4	7.789	972	979	991	rVB	262605	610624	53.64%	9.550%
5	8.142	1027	1037	1048	rBV	175683	391381	34.38%	6.121%
6	8.685	1118	1126	1140	rBV	412227	828128	72.74%	12.952%
7	10.179	1364	1371	1387	rBV	655633	1138426	100.00%	17.805%
8	11.489	1578	1586	1598	rBV	632722	1037863	91.17%	16.232%
9	12.477	1741	1748	1759	rBV	523277	844513	74.18%	13.208%
10	13.422	1892	1903	1911	rBV	673044	1029610	90.44%	16.103%
11	13.965	1986	1992	1997	rBV	12245	19429	1.71%	0.304%

Sum of corrected areas: 6393948

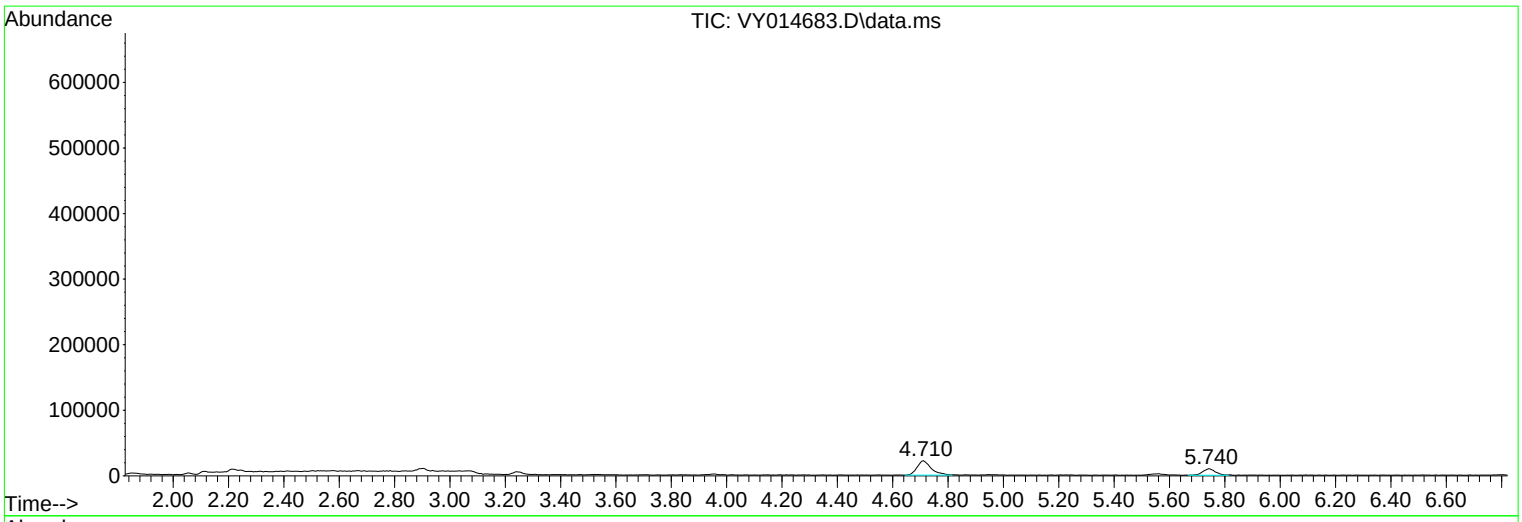
Sample Results: **VY014683.D**

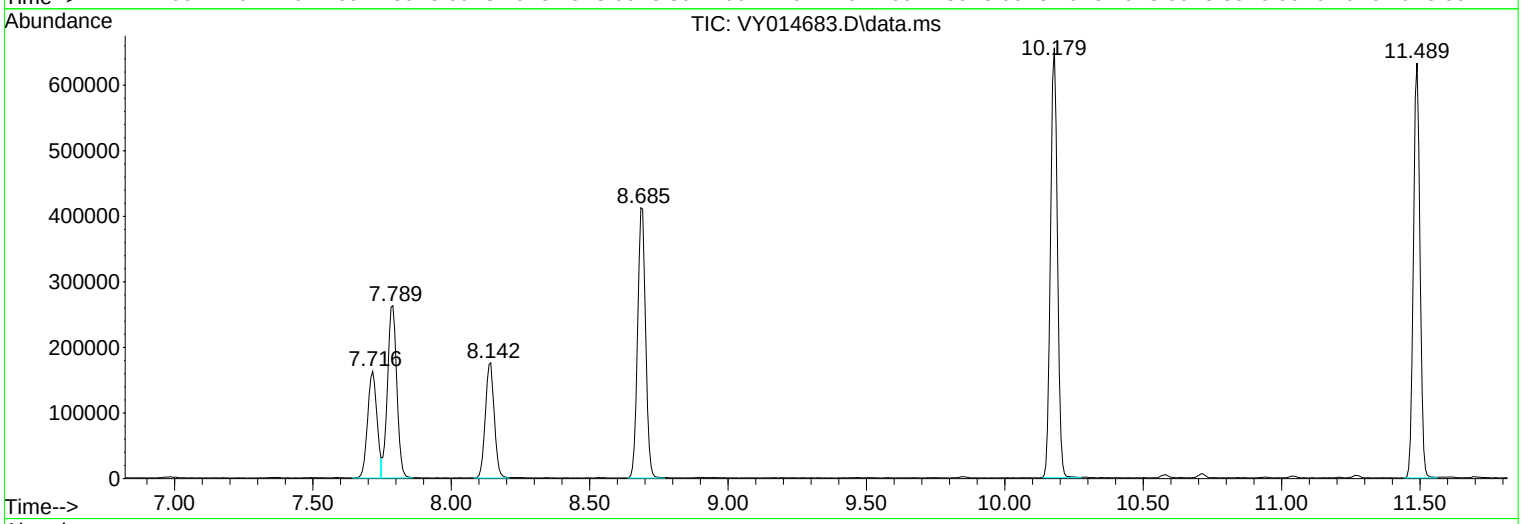
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

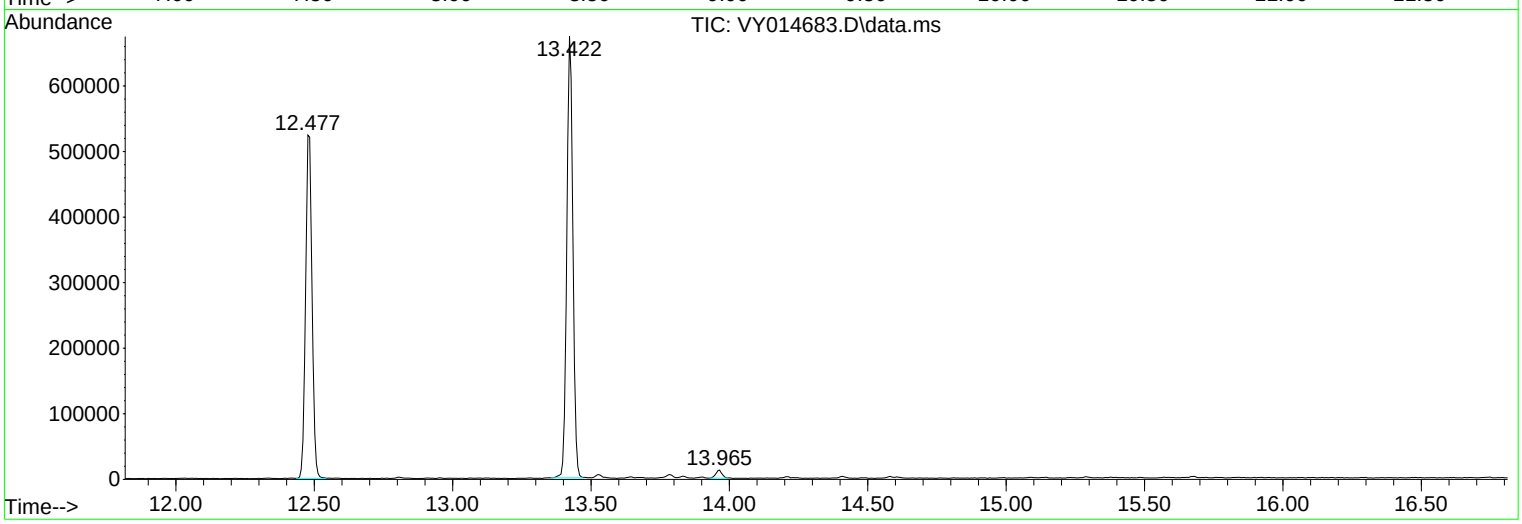
Instrument :
MSVOA_Y
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014683.D
Acq On : 17 Jul 2023 19:28
Operator : SY/MD
Sample : 03631-09
Misc : 7.84g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUP

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3631
Lab Sample ID:	O3631-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078526.D	1		07/14/23 16:49	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	4.70	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3631
Lab Sample ID:	O3631-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078526.D	1		07/14/23 16:49	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.46	3.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		74 - 125	101%	SPK: 50

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AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3631
Lab Sample ID:	O3631-10	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078526.D	1		07/14/23 16:49	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	55.3		75 - 124	111%	SPK: 50
2037-26-5	Toluene-d8	45.1		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	402000	8.235			
540-36-3	1,4-Difluorobenzene	737000	9.112			
3114-55-4	Chlorobenzene-d5	684000	11.87			
3855-82-1	1,4-Dichlorobenzene-d4	235000	13.8			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Quant Time: Jul 15 04:04:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

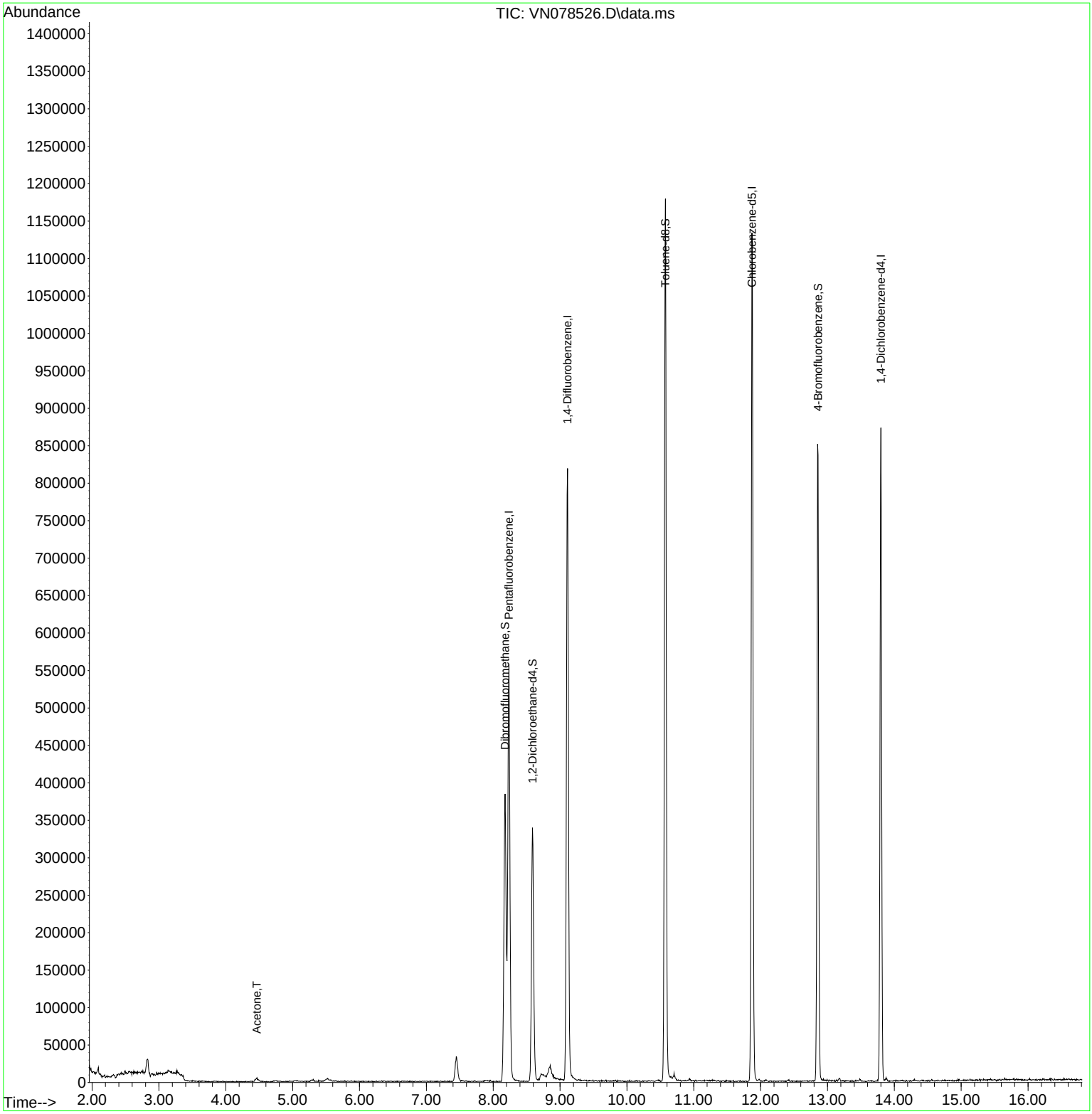
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	401816	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	736822	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	683725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	235374	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	272828	50.648	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.300%			
35) Dibromofluoromethane	8.176	113	276613	55.303	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.600%			
50) Toluene-d8	10.576	98	852583	45.122	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.240%			
62) 4-Bromofluorobenzene	12.858	95	296058	50.868	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.740%			
Target Compounds						Qvalue
16) Acetone	4.465	43	7918	4.719	ug/l #	73

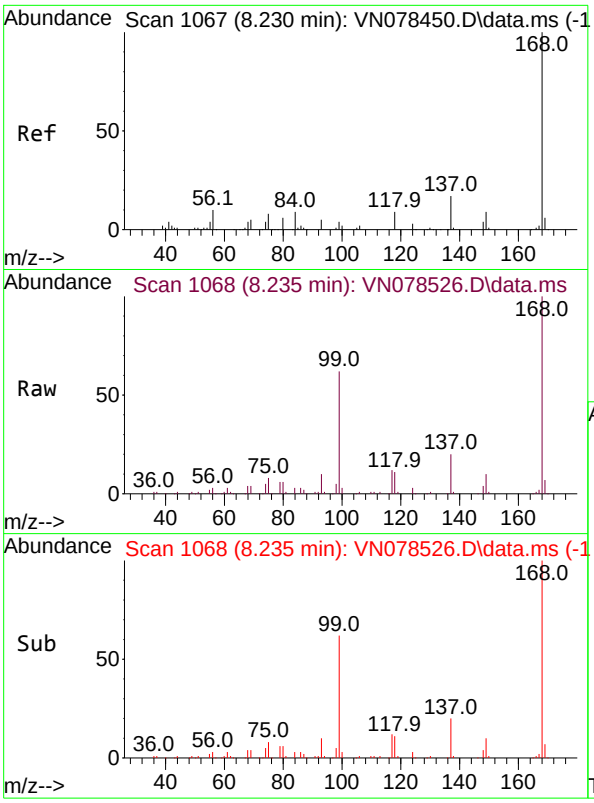
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Quant Time: Jul 15 04:04:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration



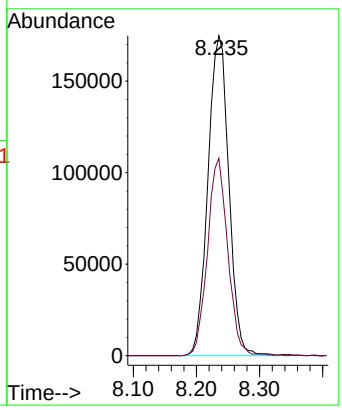


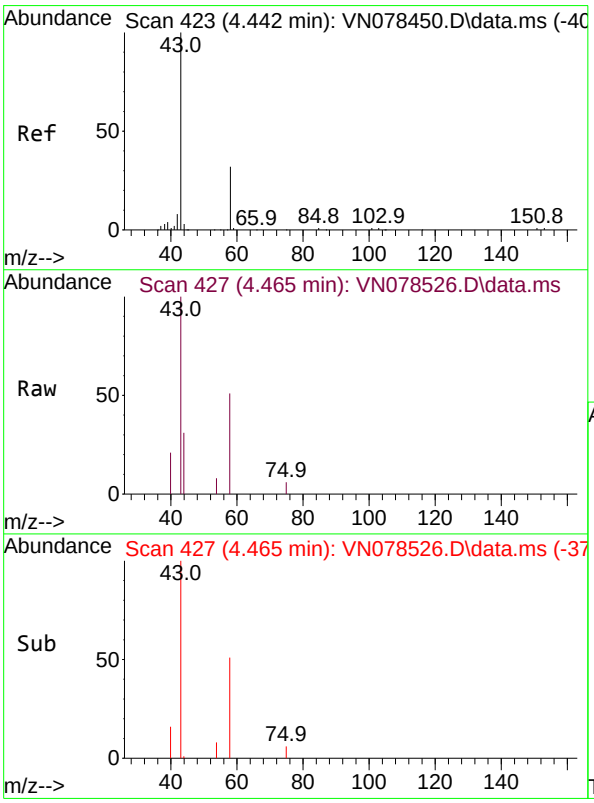
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion:168 Resp: 401816

Ion	Ratio	Lower	Upper
168	100		
99	61.6	53.0	79.6

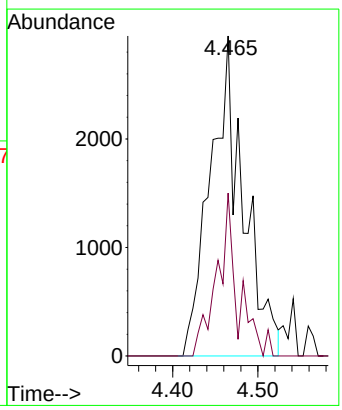


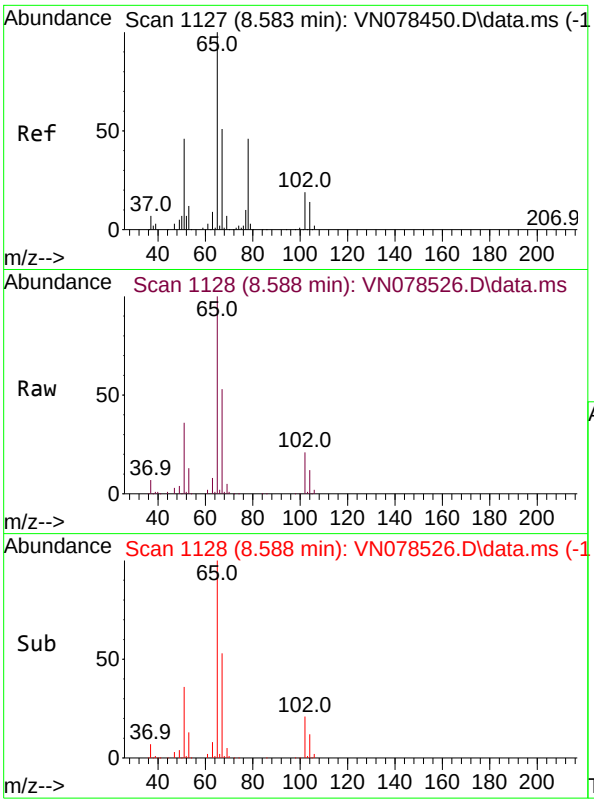


#16
Acetone
Concen: 4.719 ug/l
RT: 4.465 min Scan# 427
Delta R.T. 0.023 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Tgt Ion: 43 Resp: 7918

Ion	Ratio	Lower	Upper
43	100		
58	50.9	28.0	42.0#



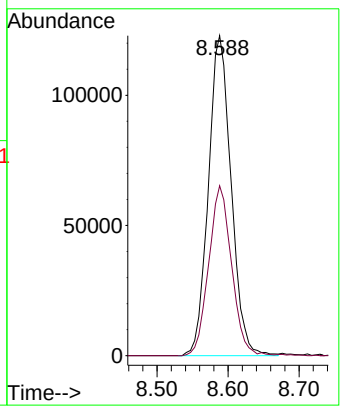


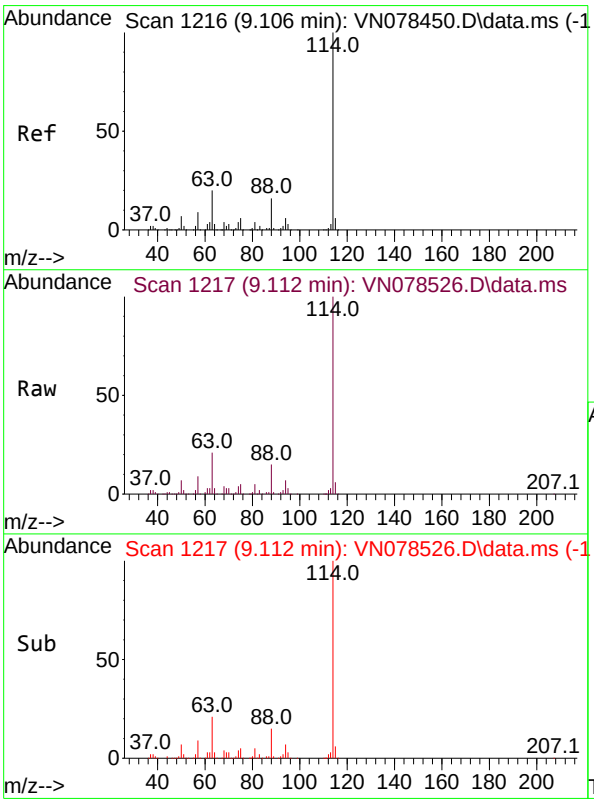
#33
1,2-Dichloroethane-d4
Concen: 50.648 ug/l
RT: 8.588 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion: 65 Resp: 272828

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.6

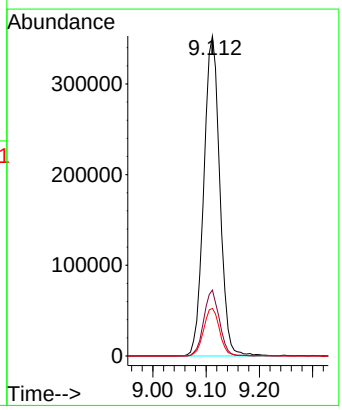


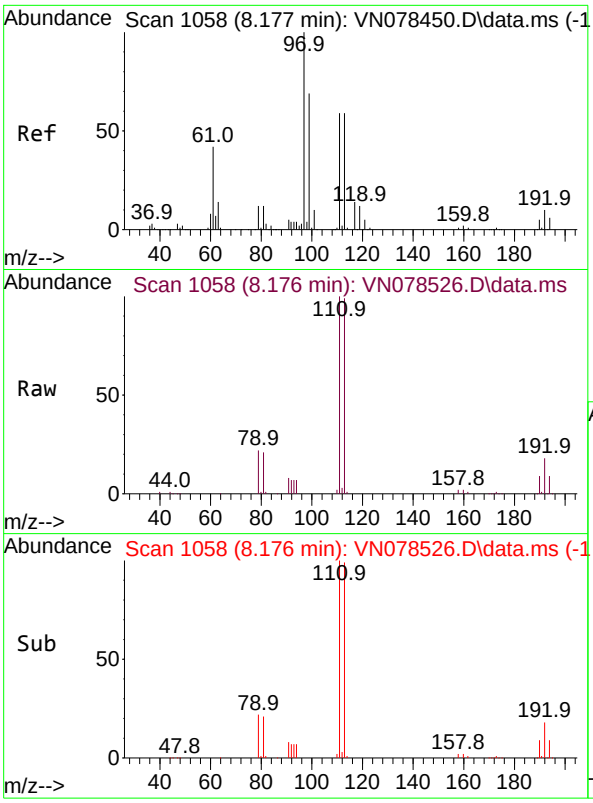


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Tgt Ion:114 Resp: 736822

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	36.4
88	14.9	0.0	30.6



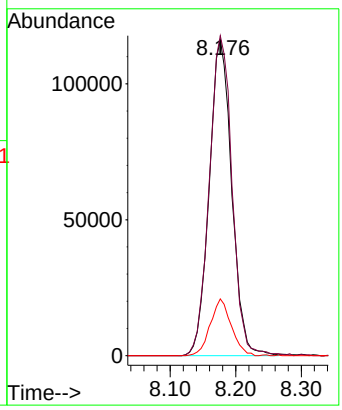


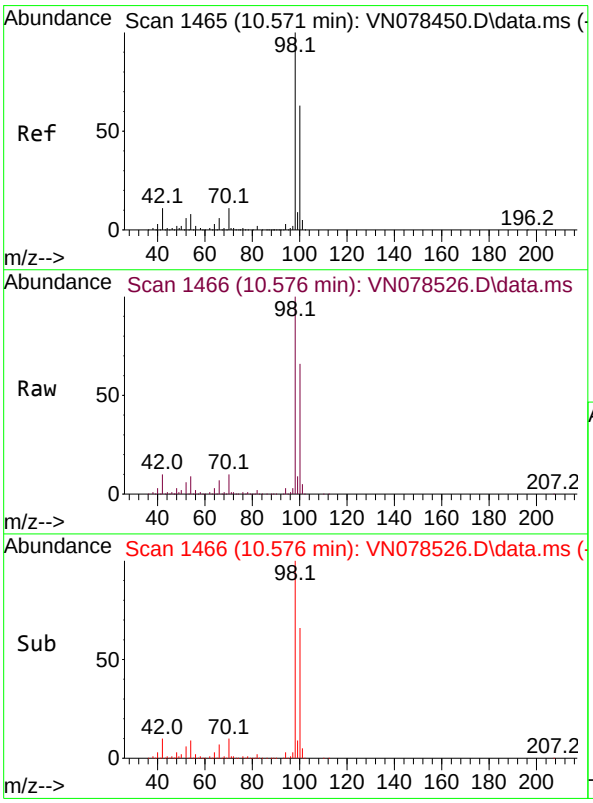
#35
Dibromofluoromethane
Concen: 55.303 ug/l
RT: 8.176 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion:113 Resp: 276613

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	16.8	12.7	19.1

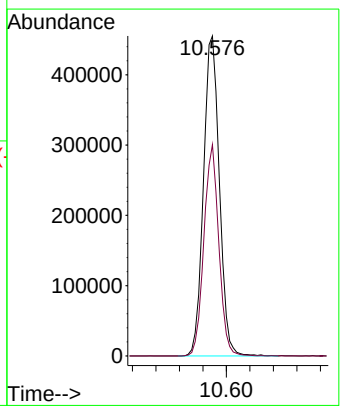


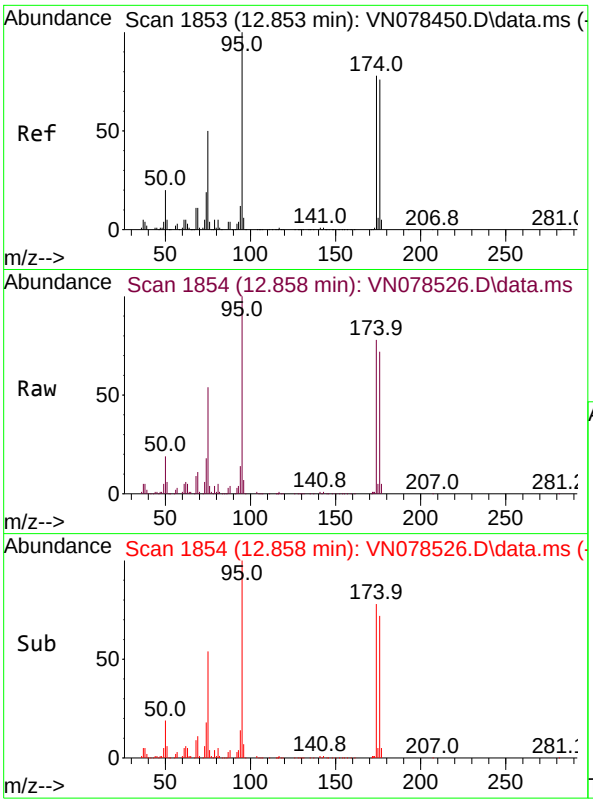


#50
Toluene-d8
Concen: 45.122 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Tgt Ion: 98 Resp: 852583

Ion	Ratio	Lower	Upper
98	100		
100	62.0	52.0	78.0



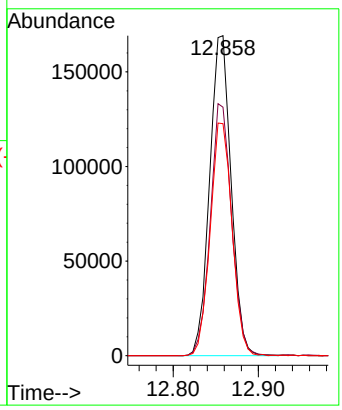


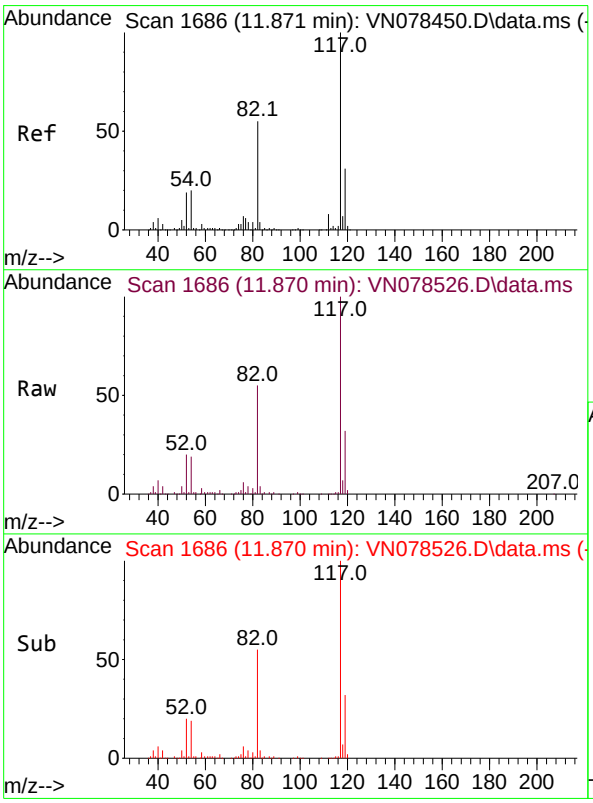
#62
4-Bromofluorobenzene
Concen: 50.868 ug/l
RT: 12.858 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion: 95 Resp: 296058

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	143.8
176	73.7	0.0	135.8

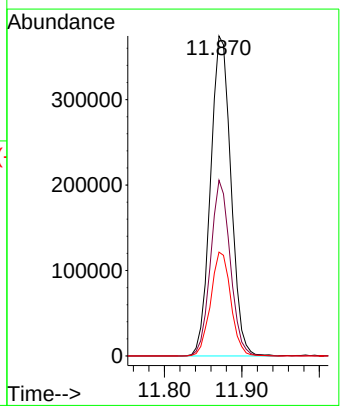


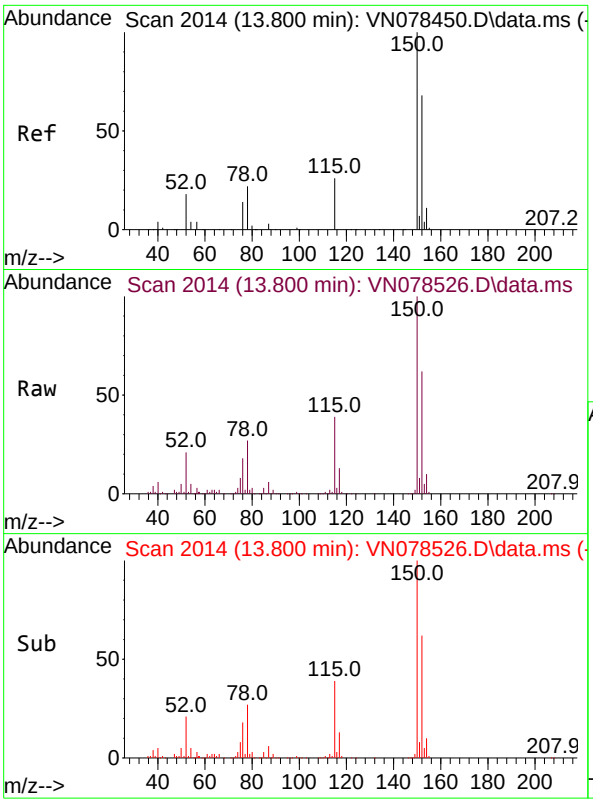


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Tgt Ion:117 Resp: 683725

Ion	Ratio	Lower	Upper
117	100		
82	54.9	44.0	66.0
119	32.5	25.6	38.4



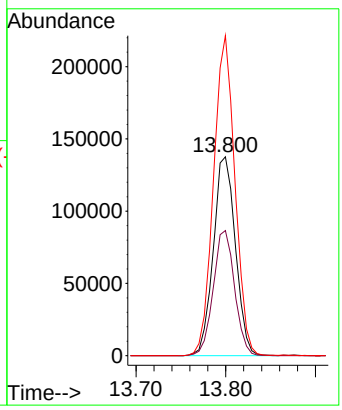


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078526.D
Acq: 14 Jul 2023 16:49

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Tgt Ion:152 Resp: 235374

Ion	Ratio	Lower	Upper
152	100		
115	60.8	32.3	96.8
150	155.7	0.0	355.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Title : SW846 8260

Signal : TIC: VN078526.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.830	142	149	156	rVB3	23277	59611	2.71%	0.496%
2	7.447	923	934	945	rBV2	33400	93748	4.27%	0.781%
3	8.176	1048	1058	1063	rBV	384119	934286	42.54%	7.781%
4	8.235	1063	1068	1084	rVB	556480	1218865	55.50%	10.151%
5	8.588	1116	1128	1141	rBV	338850	767573	34.95%	6.393%
6	8.853	1163	1173	1177	rBV3	15744	42256	1.92%	0.352%
7	9.112	1208	1217	1227	rBV	816569	1695372	77.20%	14.120%
8	10.576	1456	1466	1479	rBV	1178113	2196163	100.00%	18.291%
9	11.870	1676	1686	1700	rBV	1133024	2048294	93.27%	17.059%
10	12.853	1846	1853	1865	rBV	850275	1490102	67.85%	12.410%
11	13.800	2006	2014	2022	rBV	872244	1460542	66.50%	12.164%

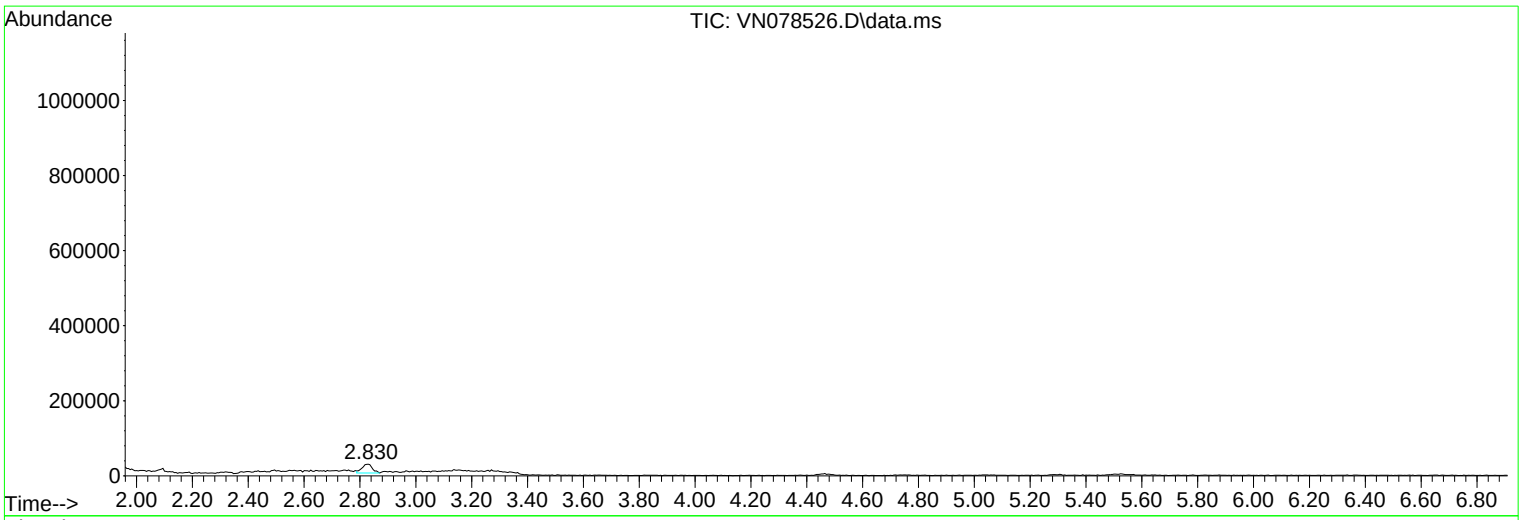
Sum of corrected areas: 12006812

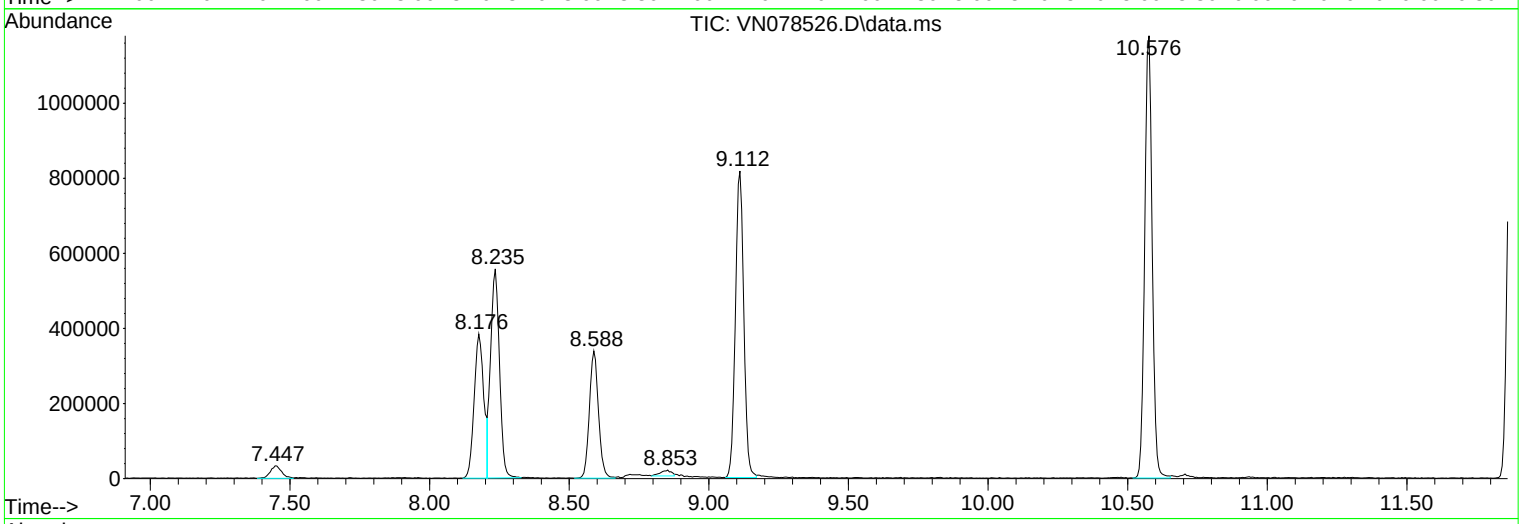
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

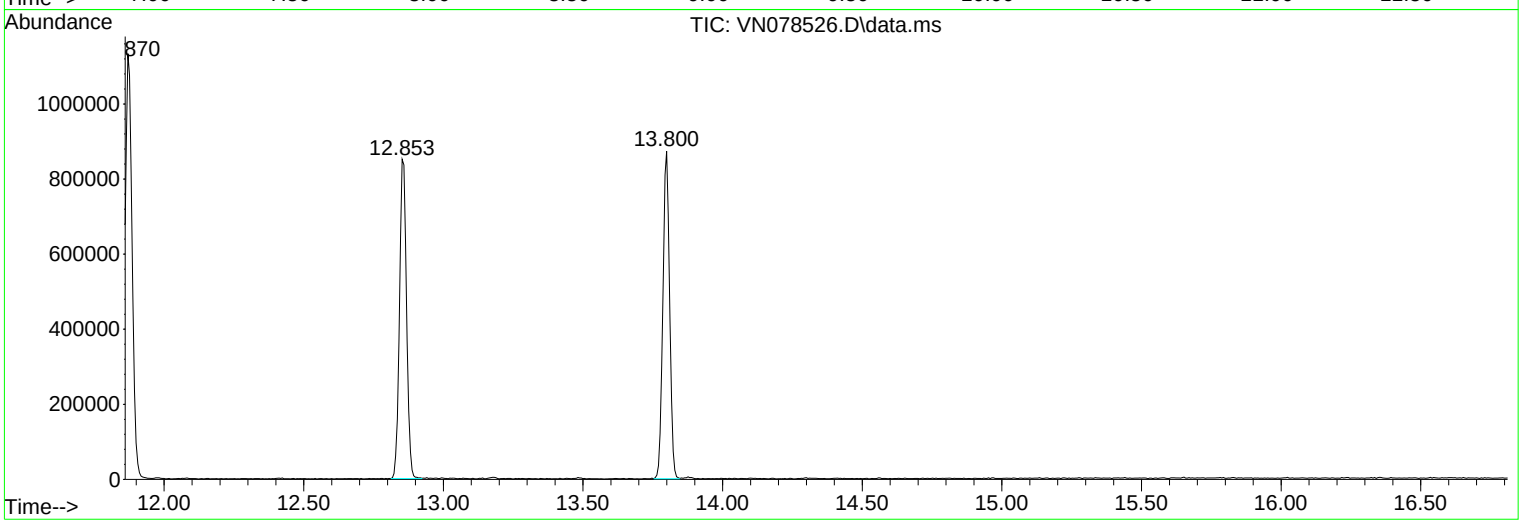
Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078526.D
Acq On : 14 Jul 2023 16:49
Operator : JC\MD
Sample : 03631-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
RINSATE-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_N Calibration Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Calibration Time(s): 12:21 14:46

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN078449.D RRF050 = VN078450.D RRF040 = VN078451.D
RRF020 = VN078452.D RRF005 = VN078453.D RRF001 = VN078454.D

COMPOUND	RRF100	RRF050	RRF040	RRF020	RRF005	RRF001	RRF	% RSD
Dichlorodifluoromethane	0.565	0.586	0.609	0.576	0.691	0.650	0.613	7.9
Chloromethane	0.566	0.614	0.651	0.617	0.733	0.818	0.666	13.9
Vinyl Chloride	0.802	0.813	0.805	0.842	0.936	0.974	0.862	8.7
Bromomethane	0.509	0.569	0.586	0.620	0.795		0.616	17.5
Chloroethane	0.500	0.570	0.523	0.560	0.592	0.751	0.583	15.2
Trichlorofluoromethane	0.945	0.983	0.993	1.010	1.108	1.143	1.030	7.5
1,1,2-Trichlorotrifluoroethane	0.513	0.537	0.542	0.533	0.577	0.569	0.545	4.4
1,1-Dichloroethene	0.502	0.519	0.523	0.509	0.567	0.545	0.528	4.6
Acetone	0.187	0.198	0.207	0.200	0.224	0.237	0.209	8.8
Carbon Disulfide	1.407	1.440	1.438	1.443	1.615	1.810	1.526	10.3
Methyl tert-butyl Ether	1.689	1.768	1.788	1.704	1.781	1.701	1.738	2.6
Methyl Acetate	0.796	0.865	0.866	0.829	0.933	1.015	0.884	8.9
Methylene Chloride	0.585	0.615	0.625	0.603	0.676	0.941	0.674	20
trans-1,2-Dichloroethene	0.562	0.592	0.591	0.581	0.631	0.610	0.595	4
1,1-Dichloroethane	1.032	1.076	1.062	1.056	1.156	1.144	1.088	4.6
Cyclohexane	0.825	0.830	0.882	0.876	1.117		0.906	13.3
2-Butanone	0.314	0.330	0.341	0.326	0.329	0.332	0.329	2.7
Carbon Tetrachloride	0.537	0.526	0.545	0.531	0.518	0.539	0.533	1.8
cis-1,2-Dichloroethene	0.673	0.688	0.696	0.681	0.711	0.678	0.688	2
Bromochloromethane	0.493	0.513	0.504	0.504	0.492	0.567	0.512	5.5
Chloroform	1.098	1.146	1.155	1.118	1.157	1.122	1.132	2.1
1,1,1-Trichloroethane	0.993	1.033	1.043	1.017	1.058	0.948	1.015	3.9
Methylcyclohexane	0.464	0.446	0.453	0.442	0.423	0.455	0.447	3.1
Benzene	1.458	1.443	1.478	1.463	1.450	1.420	1.452	1.4
1,2-Dichloroethane	0.485	0.475	0.487	0.497	0.497	0.522	0.494	3.3
Trichloroethene	0.382	0.371	0.387	0.376	0.373	0.458	0.391	8.5
1,2-Dichloropropane	0.372	0.358	0.368	0.374	0.367	0.367	0.368	1.5
Bromodichloromethane	0.526	0.518	0.522	0.526	0.503	0.518	0.519	1.7
4-Methyl-2-Pentanone	0.410	0.410	0.427	0.420	0.388	0.346	0.400	7.4
Toluene	0.930	0.902	0.936	0.878	0.869	0.885	0.900	3.1
t-1,3-Dichloropropene	0.570	0.543	0.557	0.531	0.513	0.476	0.532	6.3
cis-1,3-Dichloropropene	0.611	0.591	0.601	0.578	0.551	0.467	0.567	9.3
1,1,2-Trichloroethane	0.356	0.351	0.360	0.359	0.348	0.353	0.355	1.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_N Calibration Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Calibration Time(s): 12:21 14:46

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN078449.D RRF050 = VN078450.D RRF040 = VN078451.D
RRF020 = VN078452.D RRF005 = VN078453.D RRF001 = VN078454.D

COMPOUND	RRF100	RRF050	RRF040	RRF020	RRF005	RRF001	RRF	% RSD
2-Hexanone	0.293	0.298	0.306	0.291	0.282	0.237	0.284	8.7
Dibromochloromethane	0.412	0.401	0.406	0.393	0.377	0.360	0.391	5
1,2-Dibromoethane	0.373	0.368	0.381	0.366	0.368	0.335	0.365	4.3
Tetrachloroethene	0.366	0.373	0.389	0.396	0.391	0.340	0.376	5.5
Chlorobenzene	1.094	1.095	1.124	1.112	1.139	1.142	1.118	1.9
Ethyl Benzene	1.974	1.945	1.965	1.929	1.860	1.662	1.889	6.3
m/p-Xylenes	0.747	0.737	0.745	0.721	0.704	0.536	0.698	11.7
o-Xylene	0.736	0.718	0.725	0.713	0.686	0.654	0.705	4.3
Styrene	1.222	1.170	1.190	1.117	1.056	0.867	1.104	11.8
Bromoform	0.304	0.306	0.311	0.294	0.297	0.236	0.291	9.5
Isopropylbenzene	4.223	4.339	4.344	4.665	5.480	5.138	4.698	10.8
1,1,2,2-Tetrachloroethane	1.245	1.370	1.396	1.498	1.856	2.152	1.586	21.8
n-propylbenzene	4.818	4.824	4.885	5.017	5.527	5.076	5.024	5.3
1,3,5-Trimethylbenzene	3.386	3.486	3.562	3.773	4.124	3.941	3.712	7.7
tert-Butylbenzene	2.856	2.928	2.931	3.159	3.620	3.415	3.152	9.8
1,2,4-Trimethylbenzene	3.353	3.440	3.566	3.649	4.067	3.560	3.606	6.9
sec-Butylbenzene	3.700	3.733	3.741	3.923	4.614	4.191	3.984	9
p-Isopropyltoluene	3.051	3.079	3.135	3.204	3.565	3.159	3.199	5.9
1,3-Dichlorobenzene	1.729	1.746	1.758	1.767	1.968	1.855	1.804	5.1
1,4-Dichlorobenzene	1.688	1.723	1.710	1.775	1.939	2.064	1.817	8.3
n-Butylbenzene	2.310	2.322	2.343	2.296	2.555	1.906	2.289	9.2
1,2-Dichlorobenzene	1.673	1.724	1.730	1.808	1.985	1.849	1.795	6.3
1,2-Dibromo-3-Chloropropane	0.218	0.227	0.236	0.246	0.277	0.365	0.262	20.8
1,2,4-Trichlorobenzene	0.630	0.609	0.586	0.555	0.512	0.545	0.573	7.6
1,2,3-Trichlorobenzene	0.668	0.660	0.658	0.646	0.627	0.694	0.659	3.4
1,2-Dichloroethane-d4	0.652	0.662	0.657	0.675	0.706		0.670	3.2
Dibromofluoromethane	0.338	0.331	0.330	0.347	0.351		0.339	2.8
Toluene-d8	1.319	1.251	1.247	1.281	1.313		1.282	2.6
4-Bromofluorobenzene	0.430	0.397	0.392	0.388	0.368		0.395	5.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N071023W.M
Title : SW846 8260
Last Update : Mon Jul 10 16:13:53 2023
Response Via : Initial Calibration

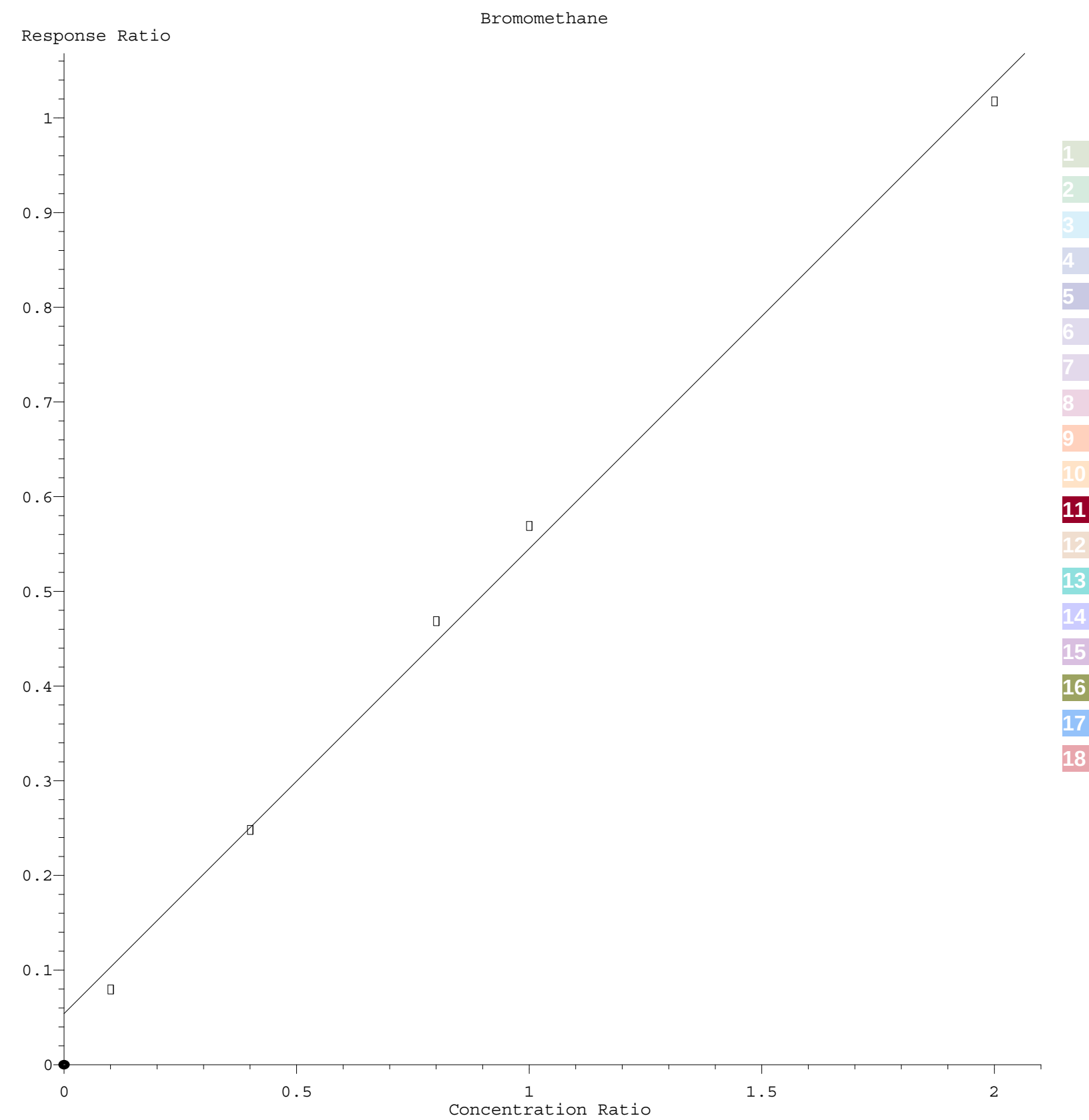
Calibration Files
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		Compound	1	5	40	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.650	0.691	0.609	0.576	0.586	0.565	0.613	7.94
3)	P	Chloromethane	0.818	0.733	0.651	0.617	0.614	0.566	0.666	13.89
4)	C	Vinyl Chloride	0.974	0.936	0.805	0.842	0.813	0.802	0.862	8.66#
5)	T	Bromomethane		0.795	0.586	0.620	0.569	0.509	0.616	17.53
6)	T	Chloroethane	0.751	0.592	0.523	0.560	0.570	0.500	0.583	15.25
7)	T	Trichlorofluor...	1.143	1.108	0.993	1.010	0.983	0.945	1.030	7.53
8)	T	Diethyl Ether	0.373	0.345	0.344	0.323	0.345	0.330	0.343	5.03
9)	T	1,1,2-Trichlor...	0.569	0.577	0.542	0.533	0.537	0.513	0.545	4.40
10)	T	Methyl Iodide		0.751	0.765	0.733	0.751	0.747	0.749	1.55
11)	T	Tert butyl alc...		0.113	0.104	0.103	0.102	0.095	0.103	6.46
12)	CM	1,1-Dichloroet...	0.545	0.567	0.523	0.509	0.519	0.502	0.528	4.60#
13)	T	Acrolein		0.108	0.107	0.101	0.103	0.089	0.102	7.36
14)	T	Allyl chloride	0.700	0.743	0.766	0.681	0.701	0.734	0.721	4.45
15)	T	Acrylonitrile	0.252	0.272	0.272	0.261	0.263	0.246	0.261	3.96
16)	T	Acetone	0.237	0.224	0.207	0.200	0.198	0.187	0.209	8.84
17)	T	Carbon Disulfide	1.810	1.615	1.438	1.443	1.440	1.407	1.526	10.34
18)	T	Methyl Acetate	1.015	0.933	0.866	0.829	0.865	0.796	0.884	8.90
19)	T	Methyl tert-bu...	1.701	1.781	1.788	1.704	1.768	1.689	1.738	2.59
20)	T	Methylene Chlo...	0.941	0.676	0.625	0.603	0.615	0.585	0.674	19.95
21)	T	trans-1,2-Dich...	0.610	0.631	0.591	0.581	0.592	0.562	0.595	4.00
22)	T	Diisopropyl ether	1.472	1.652	1.676	1.613	1.653	1.620	1.614	4.57
23)	T	Vinyl Acetate	0.878	1.023	1.089	1.039	1.081	1.048	1.026	7.49
24)	P	1,1-Dichloroet...	1.144	1.156	1.062	1.056	1.076	1.032	1.088	4.63
25)	T	2-Butanone	0.332	0.329	0.341	0.326	0.330	0.314	0.329	2.71
26)	T	2,2-Dichloropr...	0.964	0.917	0.896	0.835	0.885	0.839	0.890	5.49
27)	T	cis-1,2-Dichlo...	0.678	0.711	0.696	0.681	0.688	0.673	0.688	2.02
28)	T	Bromochloromet...	0.567	0.492	0.504	0.504	0.513	0.493	0.512	5.49
29)	T	Tetrahydrofuran	0.214	0.218	0.224	0.210	0.221	0.206	0.216	3.15
30)	C	Chloroform	1.122	1.157	1.155	1.118	1.146	1.098	1.132	2.10#
31)	T	Cyclohexane		1.117	0.882	0.876	0.830	0.825	0.906	13.34
32)	T	1,1,1-Trichlor...	0.948	1.058	1.043	1.017	1.033	0.993	1.015	3.93
33)	S	1,2-Dichloroet...		0.706	0.657	0.675	0.662	0.652	0.670	3.25
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.351	0.330	0.347	0.331	0.338	0.339	2.83
36)	T	1,1-Dichloropr...	0.515	0.482	0.492	0.479	0.477	0.495	0.490	2.86
37)	T	Ethyl Acetate	0.394	0.393	0.427	0.425	0.409	0.403	0.409	3.62
38)	T	Carbon Tetrach...	0.539	0.518	0.545	0.531	0.526	0.537	0.533	1.83
39)	T	Methylcyclohexane	0.455	0.423	0.453	0.442	0.446	0.464	0.447	3.13
40)	TM	Benzene	1.420	1.450	1.478	1.463	1.443	1.458	1.452	1.37
41)	T	Methacrylonitrile	0.197	0.229	0.210	0.202	0.205	0.207	0.208	5.29
42)	TM	1,2-Dichloroet...	0.522	0.497	0.487	0.497	0.475	0.485	0.494	3.27
43)	T	Isopropyl Acetate	0.564	0.706	0.709	0.703	0.675	0.679	0.673	8.20
44)	TM	Trichloroethene	0.458	0.373	0.387	0.376	0.371	0.382	0.391	8.53
45)	C	1,2-Dichloropr...	0.367	0.367	0.368	0.374	0.358	0.372	0.368	1.48#
46)	T	Dibromomethane	0.244	0.263	0.266	0.261	0.260	0.259	0.259	2.99
47)	T	Bromodichlorom...	0.518	0.503	0.522	0.526	0.518	0.526	0.519	1.69
48)	T	Methyl methacr...	0.286	0.309	0.323	0.312	0.320	0.319	0.312	4.38
49)	T	1,4-Dioxane	0.007	0.006	0.007	0.007	0.007	0.007	0.007	4.41
50)	S	Toluene-d8		1.313	1.247	1.281	1.251	1.319	1.282	2.61
51)	T	4-Methyl-2-Pen...	0.346	0.388	0.427	0.420	0.410	0.410	0.400	7.41
52)	CM	Toluene	0.885	0.869	0.936	0.878	0.902	0.930	0.900	3.09#
53)	T	t-1,3-Dichloro...	0.476	0.513	0.557	0.531	0.543	0.570	0.532	6.34
54)	T	cis-1,3-Dichlo...	0.467	0.551	0.601	0.578	0.591	0.611	0.567	9.35
55)	T	1,1,2-Trichlor...	0.353	0.348	0.360	0.359	0.351	0.356	0.355	1.34
56)	T	Ethyl methacry...	0.432	0.441	0.523	0.503	0.527	0.548	0.496	9.72

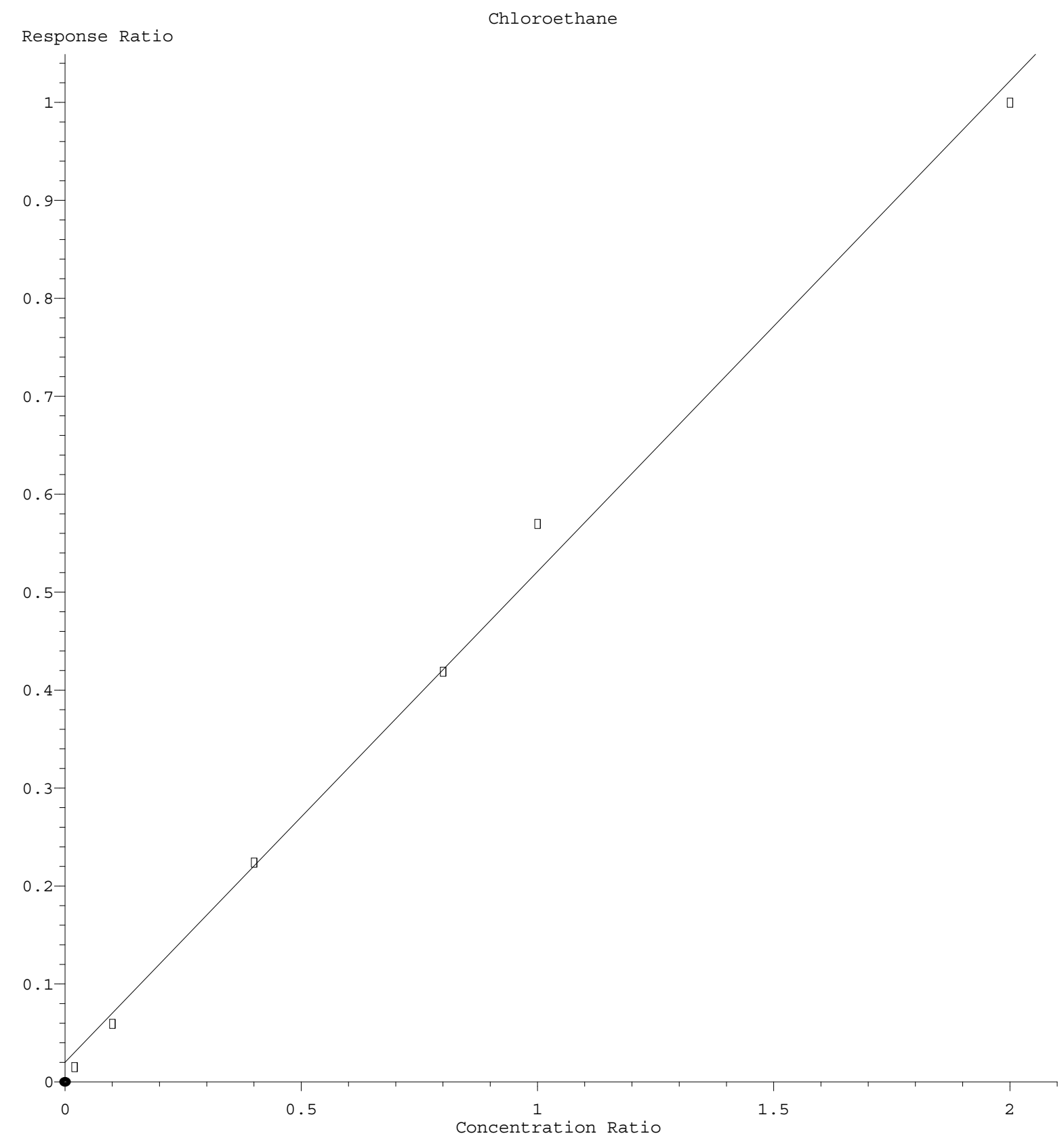
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Method File : 82N071023W.M

57)	T	1,3-Dichloropr...	0.598	0.595	0.608	0.613	0.601	0.601	0.603	1.09
58)	T	2-Chloroethyl ...	0.148	0.177	0.186	0.171	0.185	0.192	0.177	8.97
59)	T	2-Hexanone	0.237	0.282	0.306	0.291	0.298	0.293	0.284	8.65
60)	T	Dibromochlorom...	0.360	0.377	0.406	0.393	0.401	0.412	0.391	5.02
61)	T	1,2-Dibromoethane	0.335	0.368	0.381	0.366	0.368	0.373	0.365	4.28
62)	S	4-Bromofluorob...		0.368	0.392	0.388	0.397	0.430	0.395	5.74
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.340	0.391	0.389	0.396	0.373	0.366	0.376	5.55
65)	PM	Chlorobenzene	1.142	1.139	1.124	1.112	1.095	1.094	1.118	1.86
66)	T	1,1,1,2-Tetrac...	0.436	0.432	0.435	0.429	0.428	0.419	0.430	1.40
67)	C	Ethyl Benzene	1.662	1.860	1.965	1.929	1.945	1.974	1.889	6.28#
68)	T	m/p-Xylenes	0.536	0.704	0.745	0.721	0.737	0.747	0.698	11.66
69)	T	o-Xylene	0.654	0.686	0.725	0.713	0.718	0.736	0.705	4.28
70)	T	Styrene	0.867	1.056	1.190	1.117	1.170	1.222	1.104	11.76
71)	P	Bromoform	0.236	0.297	0.311	0.294	0.306	0.304	0.291	9.51
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	5.138	5.480	4.344	4.665	4.339	4.223	4.698	10.79
74)	T	N-amyl acetate	1.695	1.919	1.527	1.611	1.523	1.439	1.619	10.56
75)	P	1,1,2,2-Tetrac...	2.152	1.856	1.396	1.498	1.370	1.245	1.586	21.84
76)	T	1,2,3-Trichlor...	1.222	1.517	1.143	1.230	1.114	1.025	1.209	13.98
77)	T	Bromobenzene	1.475	1.272	1.054	1.089	1.035	0.998	1.154	15.97
78)	T	n-propylbenzene	5.076	5.527	4.885	5.017	4.824	4.818	5.024	5.32
79)	T	2-Chlorotoluene	3.915	3.547	3.048	3.283	3.017	2.937	3.291	11.49
80)	T	1,3,5-Trimethy...	3.941	4.124	3.562	3.773	3.486	3.386	3.712	7.67
81)	T	trans-1,4-Dich...		0.578	0.428	0.436	0.430	0.428	0.460	14.41
82)	T	4-Chlorotoluene	3.185	3.518	2.925	3.010	2.889	2.894	3.070	8.00
83)	T	tert-Butylbenzene	3.415	3.620	2.931	3.159	2.928	2.856	3.152	9.78
84)	T	1,2,4-Trimethy...	3.560	4.067	3.566	3.649	3.440	3.353	3.606	6.91
85)	T	sec-Butylbenzene	4.191	4.614	3.741	3.923	3.733	3.700	3.984	9.02
86)	T	p-Isopropyltol...	3.159	3.565	3.135	3.204	3.079	3.051	3.199	5.86
87)	T	1,3-Dichlorobe...	1.855	1.968	1.758	1.767	1.746	1.729	1.804	5.07
88)	T	1,4-Dichlorobe...	2.064	1.939	1.710	1.775	1.723	1.688	1.817	8.34
89)	T	n-Butylbenzene	1.906	2.555	2.343	2.296	2.322	2.310	2.289	9.20
90)	T	Hexachloroethane	0.952	0.746	0.586	0.606	0.580	0.585	0.676	22.10
91)	T	1,2-Dichlorobe...	1.849	1.985	1.730	1.808	1.724	1.673	1.795	6.26
92)	T	1,2-Dibromo-3-...	0.365	0.277	0.236	0.246	0.227	0.218	0.262	20.82
93)	T	1,2,4-Trichlor...	0.545	0.512	0.586	0.555	0.609	0.630	0.573	7.63
94)	T	Hexachlorobuta...	0.498	0.491	0.309	0.353	0.322	0.276	0.375	25.64
95)	T	Naphthalene	2.178	1.784	1.938	1.800	1.984	2.067	1.958	7.80
96)	T	1,2,3-Trichlor...	0.694	0.627	0.658	0.646	0.660	0.668	0.659	3.40

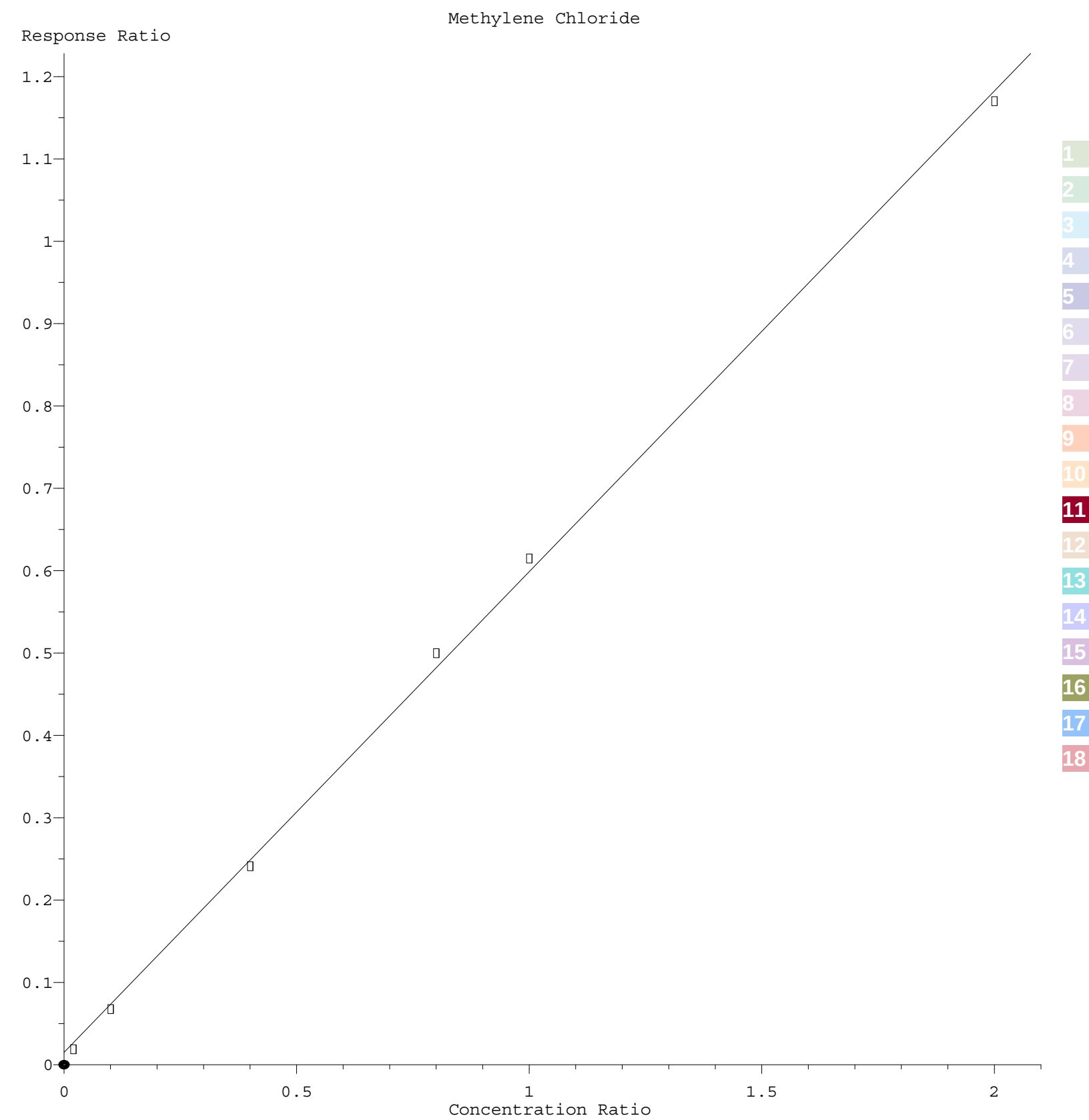
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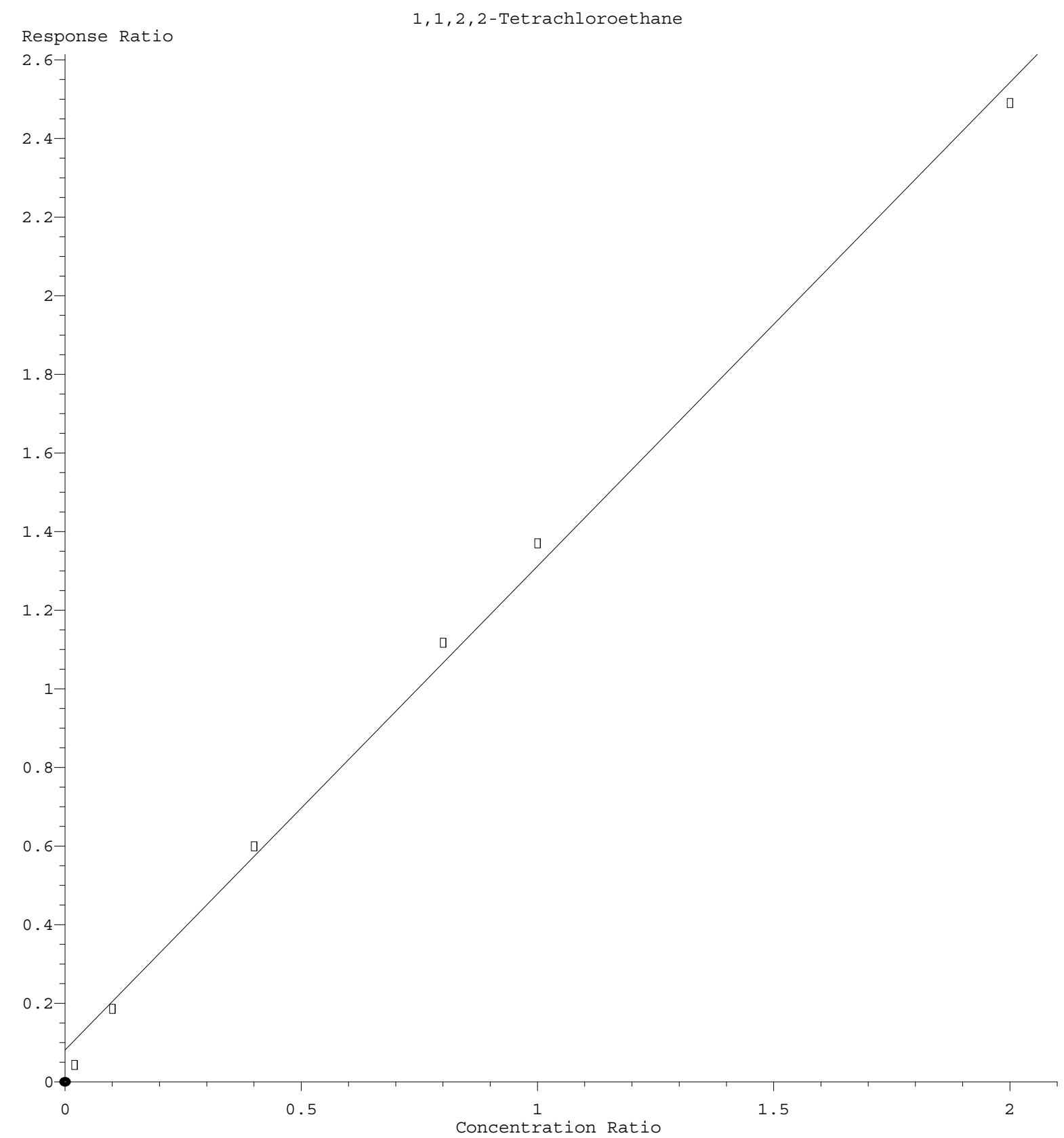
Response = 4.910e-001 * Amt + 5.421e-002
Coef of Det (r^2) = 0.996171 Curve Fit: Linear
Method: \\chrsrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Calibration Table Last Updated: Mon Jul 10 16:13:53 2023



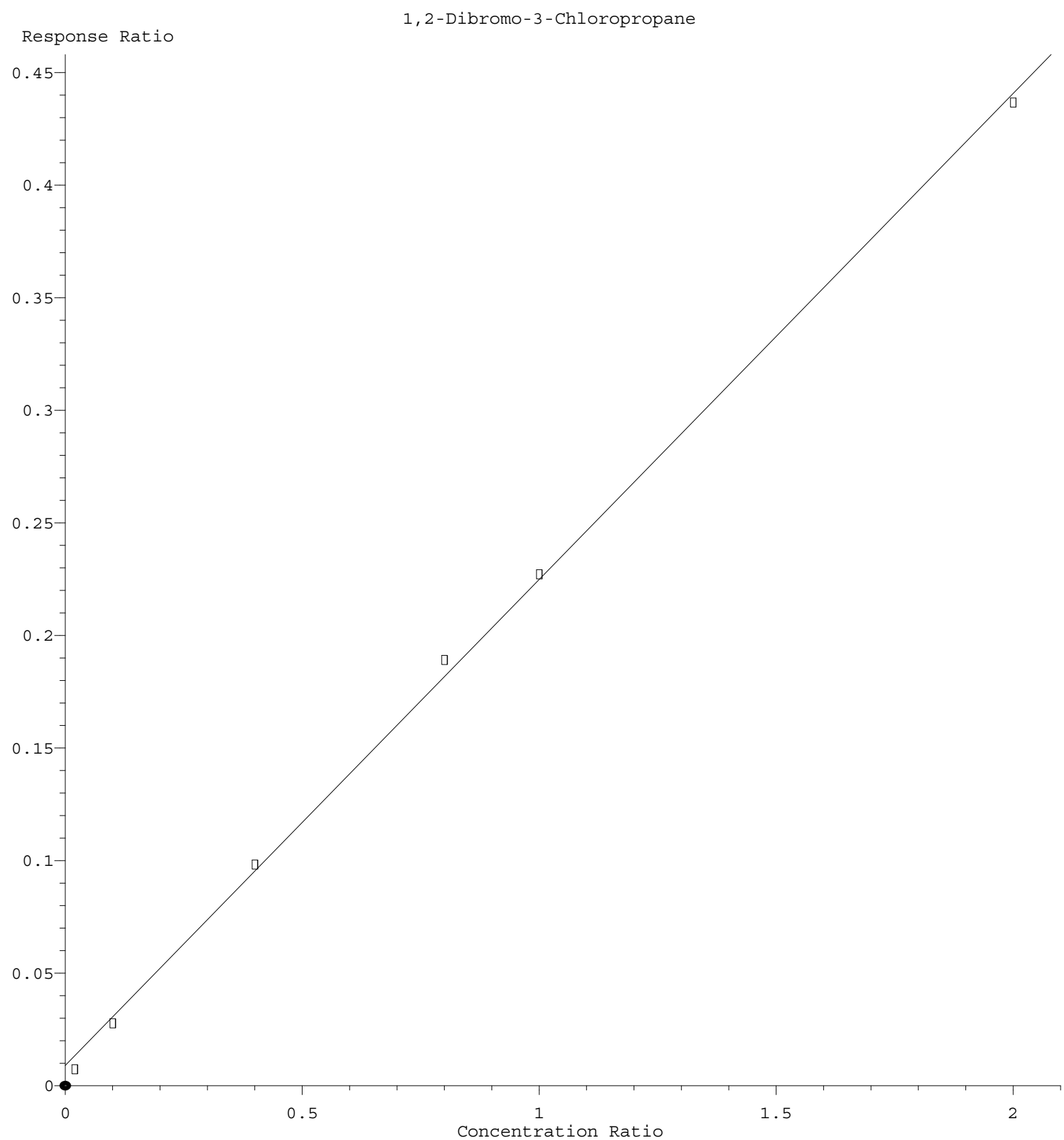
Response = 5.014e-001 * Amt + 2.004e-002
Coef of Det (r^2) = 0.995266 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Calibration Table Last Updated: Mon Jul 10 16:13:53 2023



Response = 5.843e-001 * Amt + 1.465e-002
Coef of Det (r^2) = 0.999057 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Calibration Table Last Updated: Mon Jul 10 16:13:53 2023



Response = 1.231e+000 * Amt + 8.129e-002
Coef of Det (r^2) = 0.996657 Curve Fit: Linear
Method: \\chrmsrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Calibration Table Last Updated: Mon Jul 10 16:13:53 2023



Response = 2.163e-001 * Amt + 8.637e-003
Coef of Det (r^2) = 0.998980 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Calibration Table Last Updated: Mon Jul 10 16:13:53 2023

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078449.D
Acq On : 10 Jul 2023 12:21
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:53:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	529269	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	884816	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	809369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	350434	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	689860	97.226	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 194.460%#			
35) Dibromofluoromethane	8.171	113	598949	99.718	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.440%#			
50) Toluene-d8	10.570	98	2333382	102.836	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 205.680%#			
62) 4-Bromofluorobenzene	12.853	95	761303	108.927	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 217.860%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	598287	92.198	ug/l	99
3) Chloromethane	2.371	50	598919	84.916	ug/l	99
4) Vinyl Chloride	2.518	62	848479	92.996	ug/l	99
5) Bromomethane	2.930	94	538464	98.088	ug/l	98
6) Chloroethane	3.112	64	529072	97.693	ug/l	99
7) Trichlorofluoromethane	3.500	101	1000520	91.735	ug/l	98
8) Diethyl Ether	3.971	74	348876	96.009	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.377	101	543113	94.070	ug/l	96
10) Methyl Iodide	4.600	142	791102	99.715	ug/l	98
11) Tert butyl alcohol	5.535	59	500203	457.168	ug/l	100
12) 1,1-Dichloroethene	4.347	96	531553	95.180	ug/l	93
13) Acrolein	4.189	56	472675	439.093	ug/l	96
14) Allyl chloride	5.030	41	776741	101.785	ug/l	95
15) Acrylonitrile	5.730	53	1304517	471.888	ug/l	98
16) Acetone	4.441	43	989619	447.746	ug/l	95
17) Carbon Disulfide	4.718	76	1489774	92.251	ug/l	100
18) Methyl Acetate	5.036	43	842277	90.022	ug/l	91
19) Methyl tert-butyl Ether	5.806	73	1787957	97.168	ug/l	98
20) Methylene Chloride	5.288	84	619280	99.918	ug/l	94
21) trans-1,2-Dichloroethene	5.788	96	594718	94.500	ug/l	85
22) Diisopropyl ether	6.682	45	1714703	100.349	ug/l	93
23) Vinyl Acetate	6.612	43	5545293	510.470	ug/l #	90
24) 1,1-Dichloroethane	6.577	63	1092661	94.898	ug/l	97
25) 2-Butanone	7.494	43	1660630	477.304	ug/l #	86
26) 2,2-Dichloropropane	7.494	77	888554	94.354	ug/l	97
27) cis-1,2-Dichloroethene	7.494	96	712162	97.820	ug/l	95
28) Bromochloromethane	7.818	49	522124	96.276	ug/l	95
29) Tetrahydrofuran	7.841	42	1091183	477.975	ug/l	85
30) Chloroform	7.971	83	1162056	96.940	ug/l	95
31) Cyclohexane	8.265	56	873121	91.053	ug/l	91
32) 1,1,1-Trichloroethane	8.177	97	1051373	97.825	ug/l	99
36) 1,1-Dichloropropene	8.377	75	876574	101.073	ug/l	97
37) Ethyl Acetate	7.571	43	713961	98.754	ug/l #	93
38) Carbon Tetrachloride	8.371	117	951010	100.894	ug/l	99
39) Methylcyclohexane	9.606	83	821072	103.718	ug/l	93
40) Benzene	8.612	78	2579598	100.399	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078449.D
Acq On : 10 Jul 2023 12:21
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:53:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	366272	99.379	ug/l		93
42) 1,2-Dichloroethane	8.676	62	859129	98.306	ug/l		98
43) Isopropyl Acetate	8.694	43	1200973	100.898	ug/l		95
44) Trichloroethene	9.359	130	676620	97.708	ug/l		96
45) 1,2-Dichloropropane	9.629	63	659180	101.295	ug/l		96
46) Dibromomethane	9.718	93	458394	100.082	ug/l		92
47) Bromodichloromethane	9.894	83	931328	101.438	ug/l		96
48) Methyl methacrylate	9.688	41	565122	102.480	ug/l		89
49) 1,4-Dioxane	9.700	88	235915	1961.710	ug/l		92
51) 4-Methyl-2-Pentanone	10.453	43	3625073	512.021	ug/l		94
52) Toluene	10.635	92	1645878	103.357	ug/l		95
53) t-1,3-Dichloropropene	10.841	75	1008246	107.193	ug/l		97
54) cis-1,3-Dichloropropene	10.318	75	1081769	107.895	ug/l		95
55) 1,1,2-Trichloroethane	11.023	97	630169	100.440	ug/l		96
56) Ethyl methacrylate	10.882	69	969055	110.491	ug/l		91
57) 1,3-Dichloropropane	11.170	76	1063476	99.690	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.165	63	1698978	543.575	ug/l		92
59) 2-Hexanone	11.200	43	2590734	514.873	ug/l		93
60) Dibromochloromethane	11.365	129	729257	105.285	ug/l		100
61) 1,2-Dibromoethane	11.476	107	659683	102.069	ug/l		98
64) Tetrachloroethene	11.112	164	592538	97.376	ug/l		99
65) Chlorobenzene	11.900	112	1771031	97.894	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.964	131	678645	97.511	ug/l		98
67) Ethyl Benzene	11.970	91	3195916	104.509	ug/l		99
68) m/p-Xylenes	12.076	106	2419893	214.028	ug/l		99
69) o-Xylene	12.406	106	1192004	104.378	ug/l		99
70) Styrene	12.417	104	1977678	110.693	ug/l		98
71) Bromoform	12.582	173	491543	104.284	ug/l	#	99
73) Isopropylbenzene	12.700	105	2959536	89.878	ug/l		99
74) N-amyl acetate	12.500	43	1008511	88.874	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.941	83	872665	97.850	ug/l		99
76) 1,2,3-Trichloropropane	13.000	75	718586m	84.931	ug/l		
77) Bromobenzene	12.988	156	699504	99.206	ug/l		96
78) n-propylbenzene	13.041	91	3376548	95.884	ug/l		100
79) 2-Chlorotoluene	13.129	91	2058460	89.241	ug/l		97
80) 1,3,5-Trimethylbenzene	13.176	105	2373479	91.227	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	300079	93.095	ug/l		96
82) 4-Chlorotoluene	13.229	91	2028212	94.257	ug/l		98
83) tert-Butylbenzene	13.447	119	2001333	90.603	ug/l		96
84) 1,2,4-Trimethylbenzene	13.488	105	2349919	92.987	ug/l		98
85) sec-Butylbenzene	13.623	105	2593302	92.882	ug/l		99
86) p-Isopropyltoluene	13.735	119	2138276	95.378	ug/l		98
87) 1,3-Dichlorobenzene	13.741	146	1211554	95.843	ug/l		98
88) 1,4-Dichlorobenzene	13.817	146	1183297	92.934	ug/l		98
89) n-Butylbenzene	14.064	91	1619314	100.948	ug/l		97
90) Hexachloroethane	14.341	117	410352	100.408	ug/l		86
91) 1,2-Dichlorobenzene	14.111	146	1172549	93.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	153027	98.955	ug/l		92
93) 1,2,4-Trichlorobenzene	15.400	180	441721	110.019	ug/l		97
94) Hexachlorobutadiene	15.505	225	193432	97.023	ug/l		99
95) Naphthalene	15.647	128	1448721	105.547	ug/l		99
96) 1,2,3-Trichlorobenzene	15.847	180	468039	101.382	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078449.D
Acq On : 10 Jul 2023 12:21
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 15:53:29 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

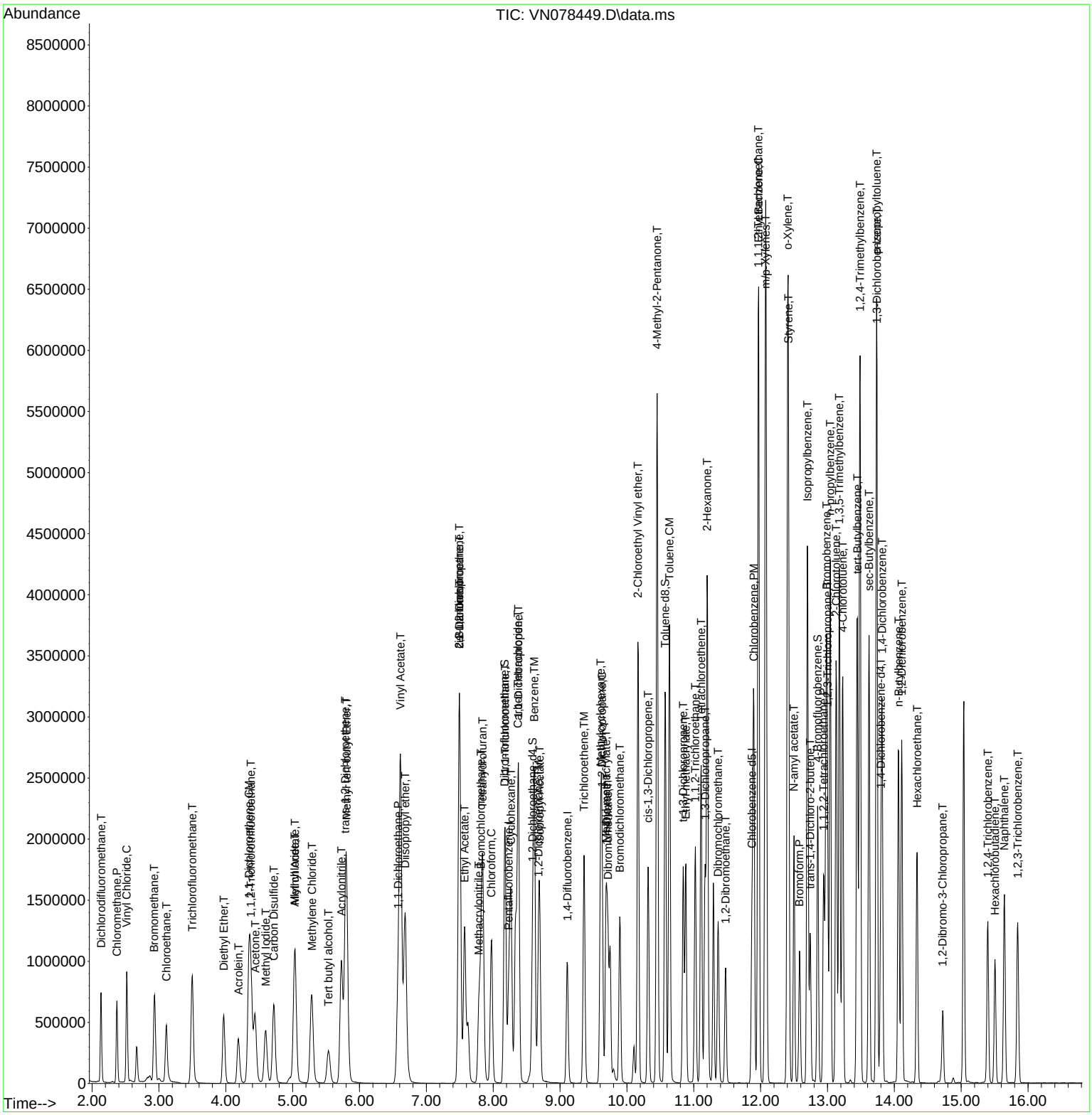
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Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

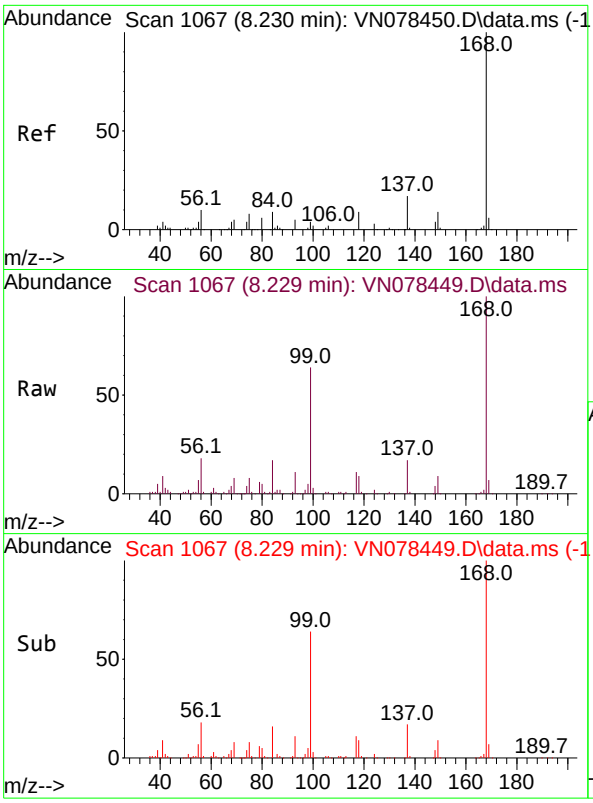
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
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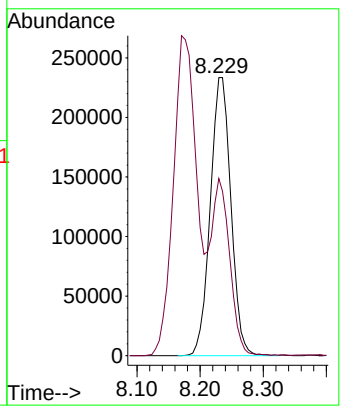




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:168 Resp: 52926

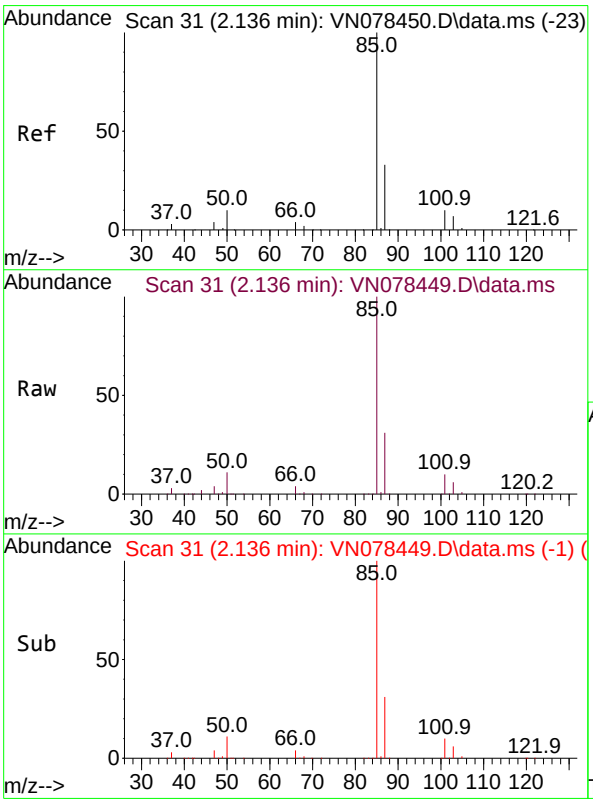
Ion	Ratio	Lower	Upper
168	100		
99	63.6	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

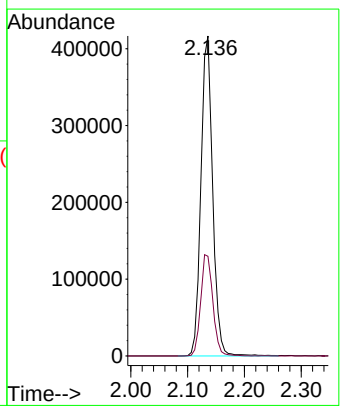
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

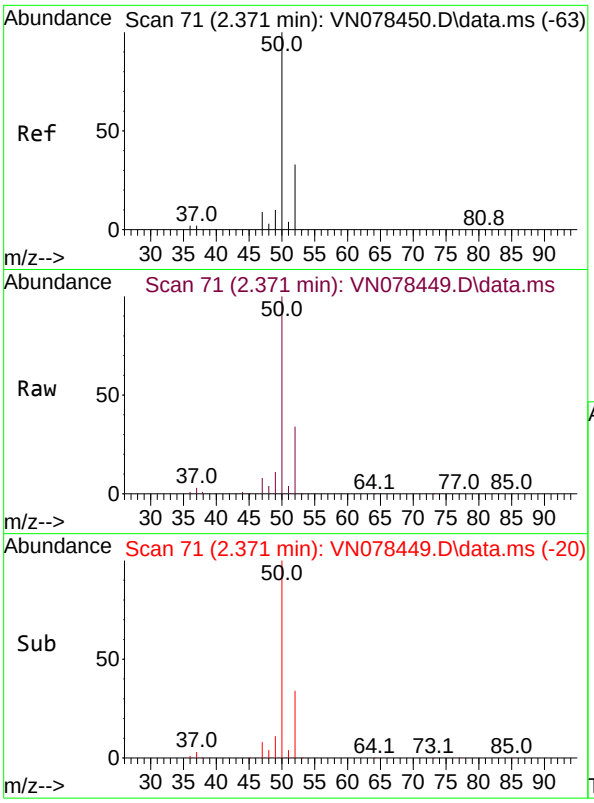


#2
Dichlorodifluoromethane
Concen: 92.198 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 85 Resp: 598287

Ion	Ratio	Lower	Upper
85	100		
87	31.1	15.8	47.4

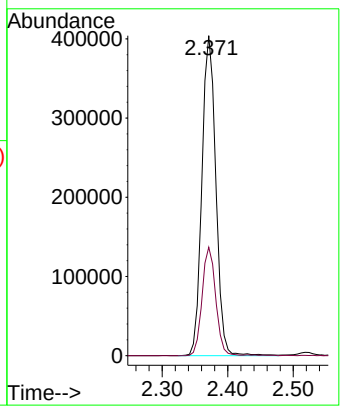




#3
Chloromethane
Concen: 84.916 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 50 Resp: 59891

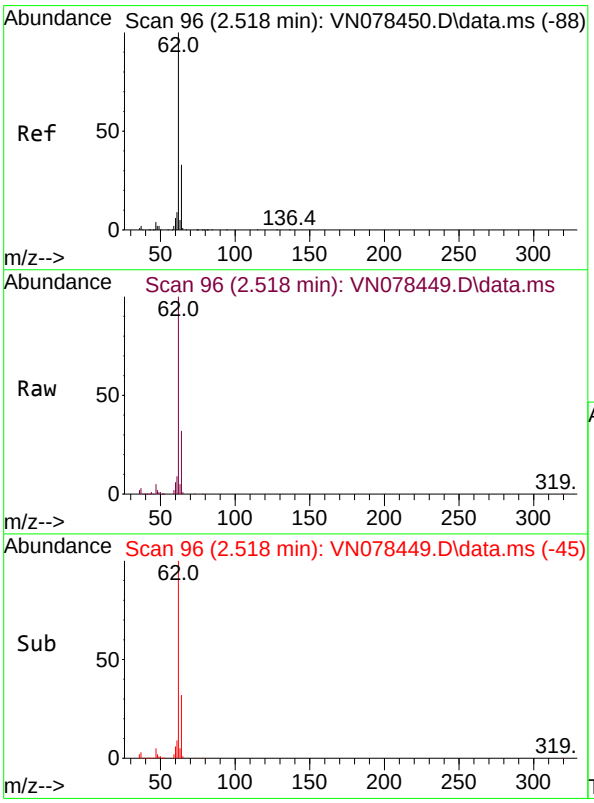
Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

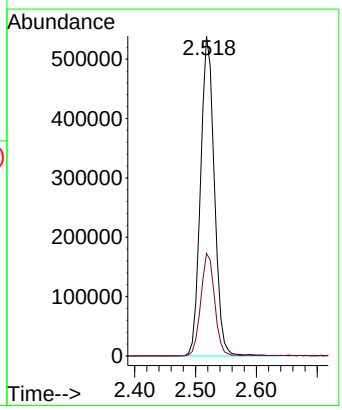
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

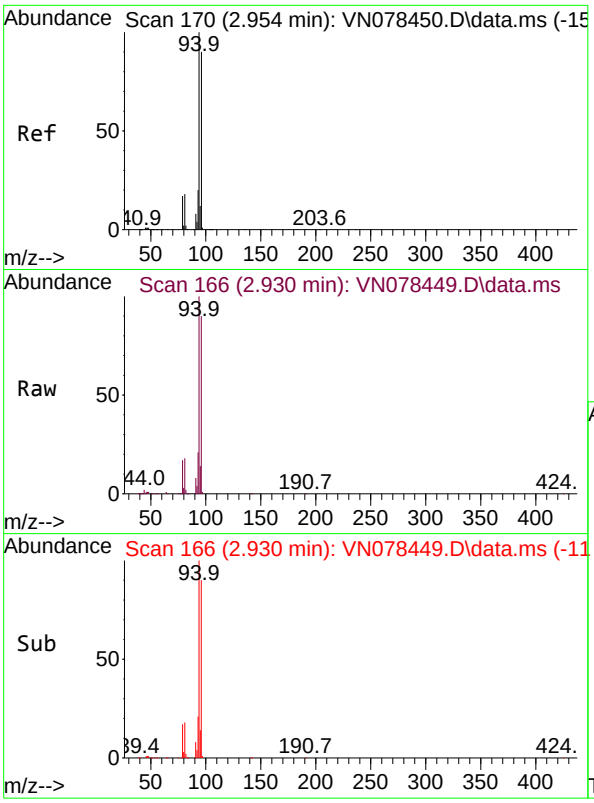


#4
Vinyl Chloride
Concen: 92.996 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 62 Resp: 848479

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.2	39.2

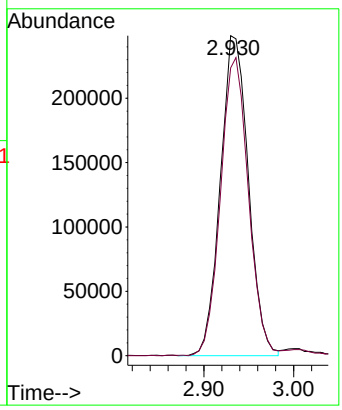




#5
Bromomethane
Concen: 98.088 ug/l
RT: 2.930 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 94 Resp: 53846

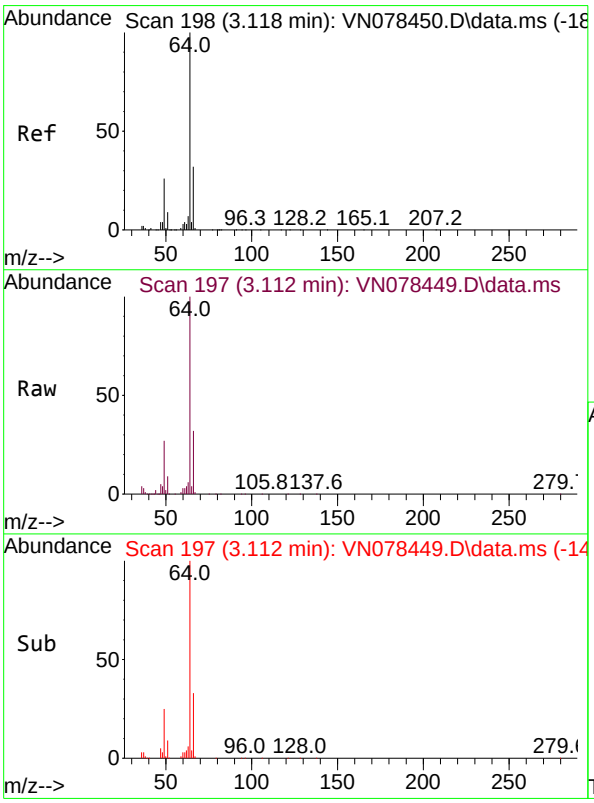
Ion	Ratio	Lower	Upper
94	100		
96	89.9	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

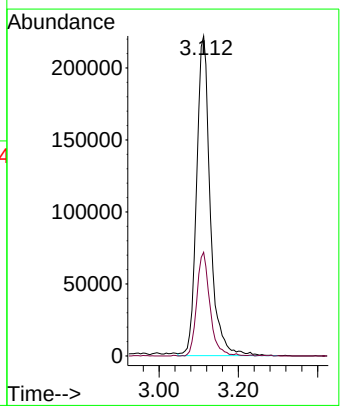
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

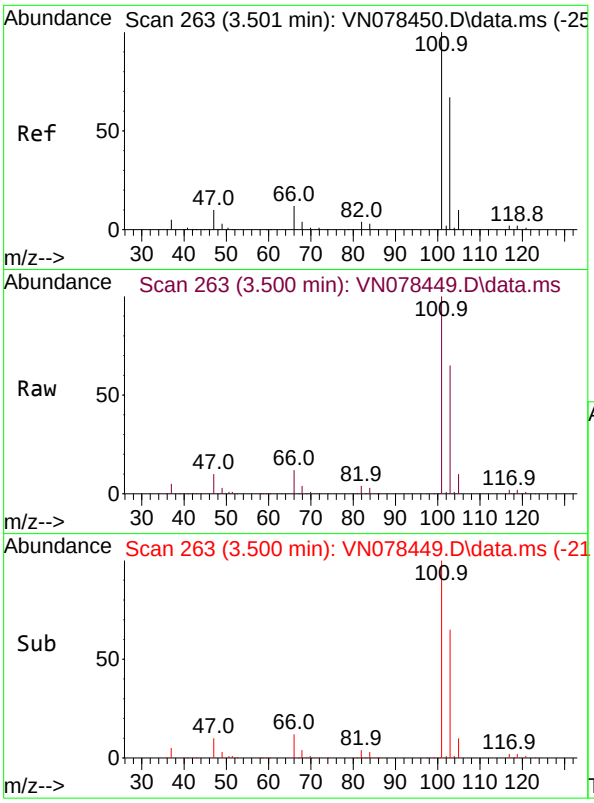


#6
Chloroethane
Concen: 97.693 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 64 Resp: 529072

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.4	38.2

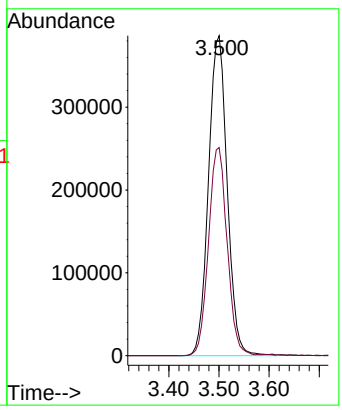




#7
Trichlorofluoromethane
Concen: 91.735 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:101 Resp: 100052

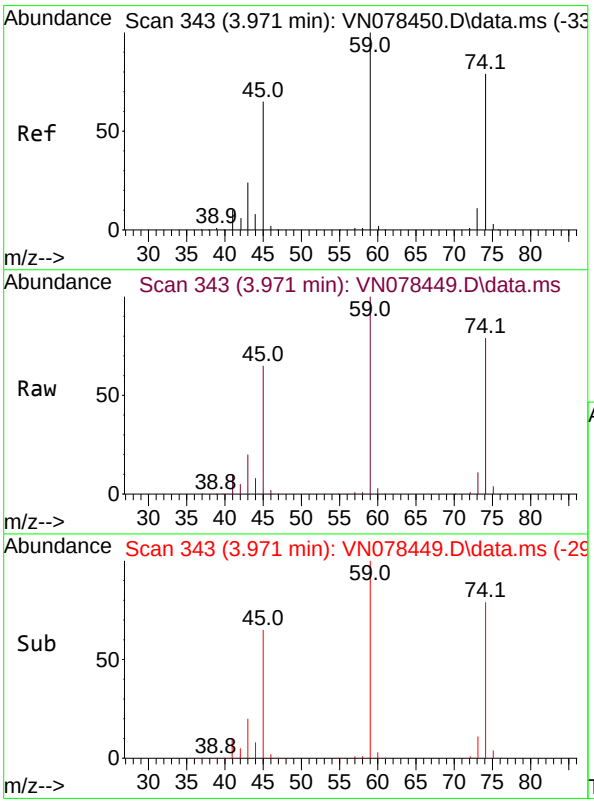
Ion	Ratio	Lower	Upper
101	100		
103	65.1	50.7	76.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

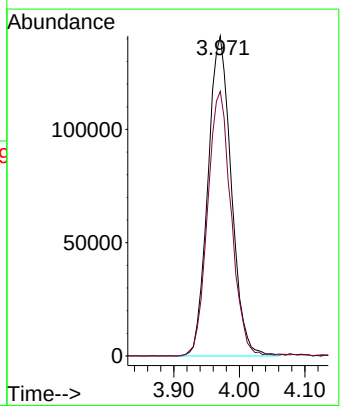
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

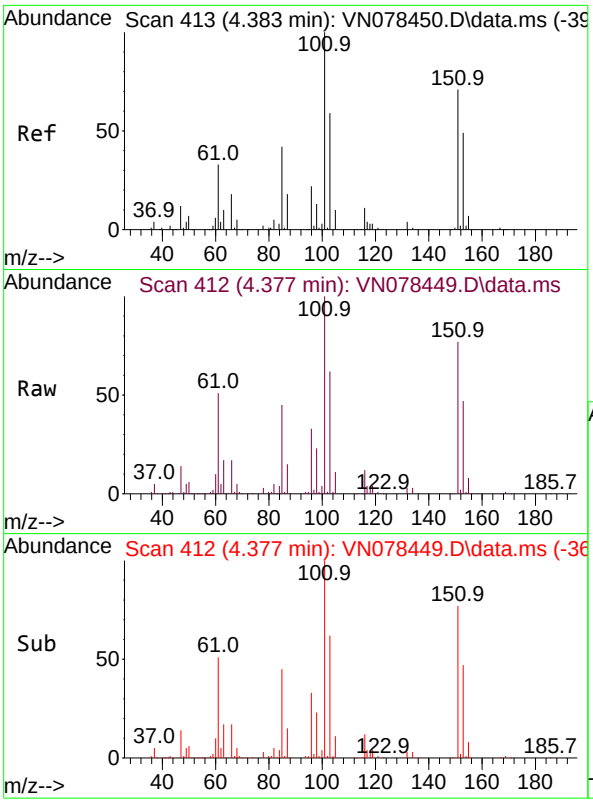


#8
Diethyl Ether
Concen: 96.009 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 74 Resp: 348876

Ion	Ratio	Lower	Upper
74	100		
45	83.5	34.4	103.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 94.070 ug/l
RT: 4.377 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

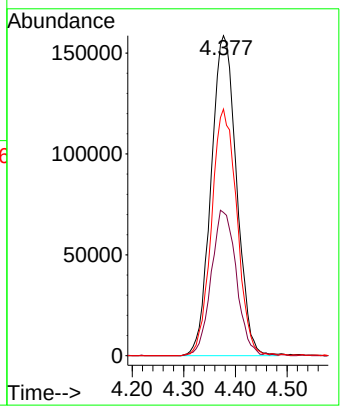
Tgt Ion:101 Resp: 54311

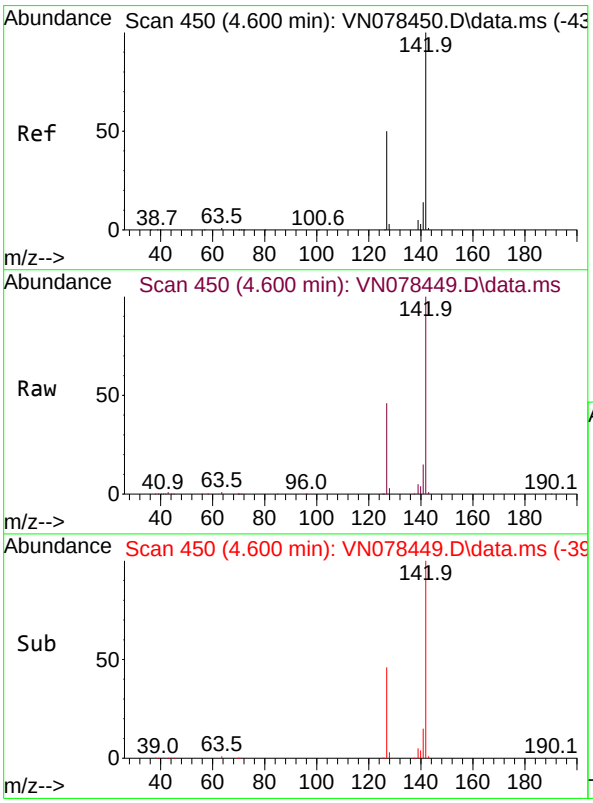
Ion	Ratio	Lower	Upper
101	100		
85	44.7	36.6	55.0
151	76.6	57.6	86.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

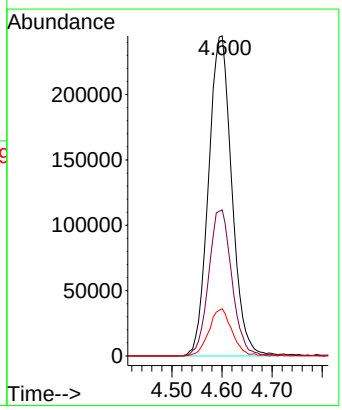


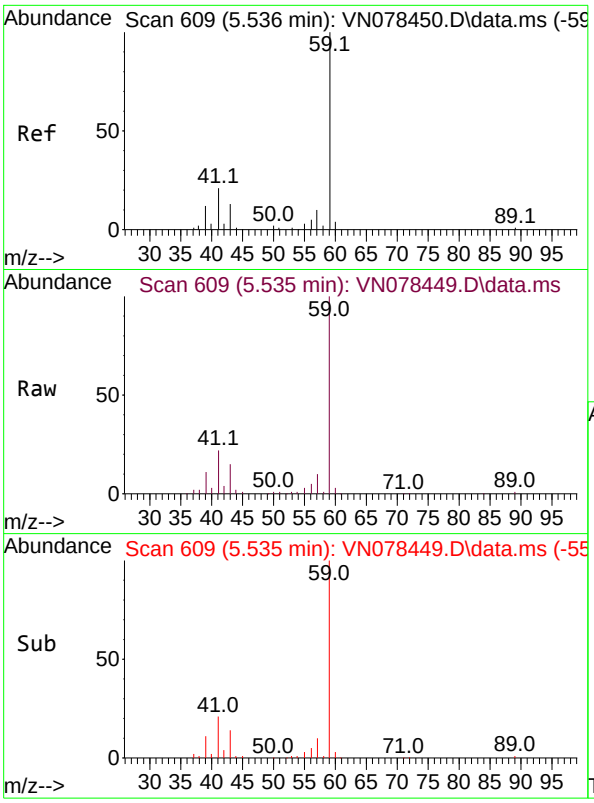


#10
Methyl Iodide
Concen: 99.715 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:142 Resp: 791102

Ion	Ratio	Lower	Upper
142	100		
127	45.6	37.6	56.4
141	14.8	11.4	17.0

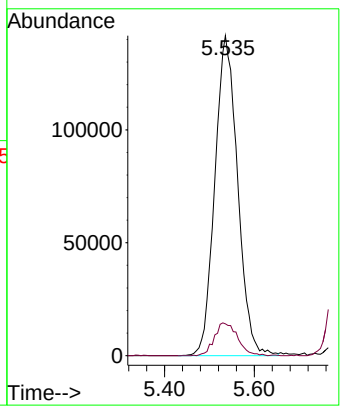




#11
Tert butyl alcohol
Concen: 457.168 ug/l
RT: 5.535 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 59 Resp: 50020

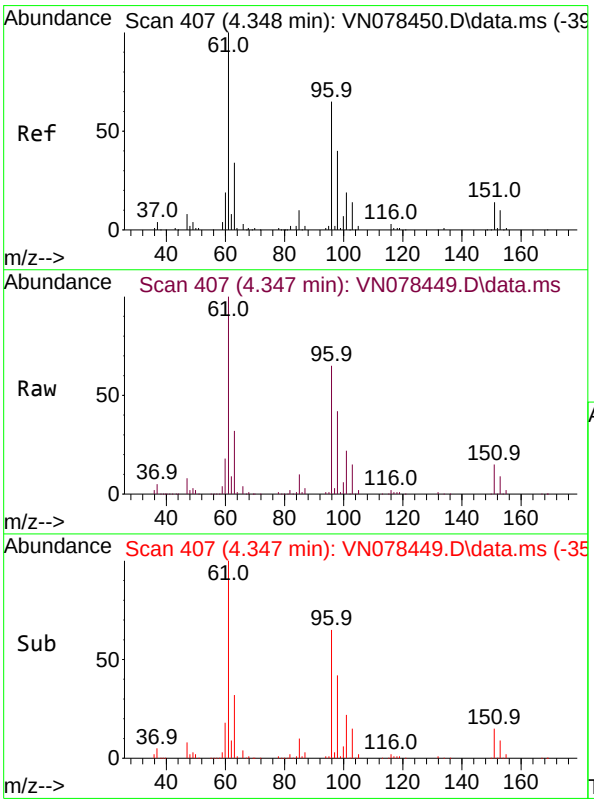
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

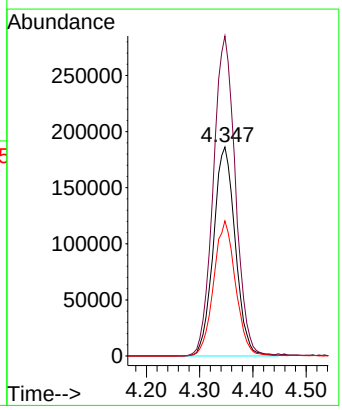
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

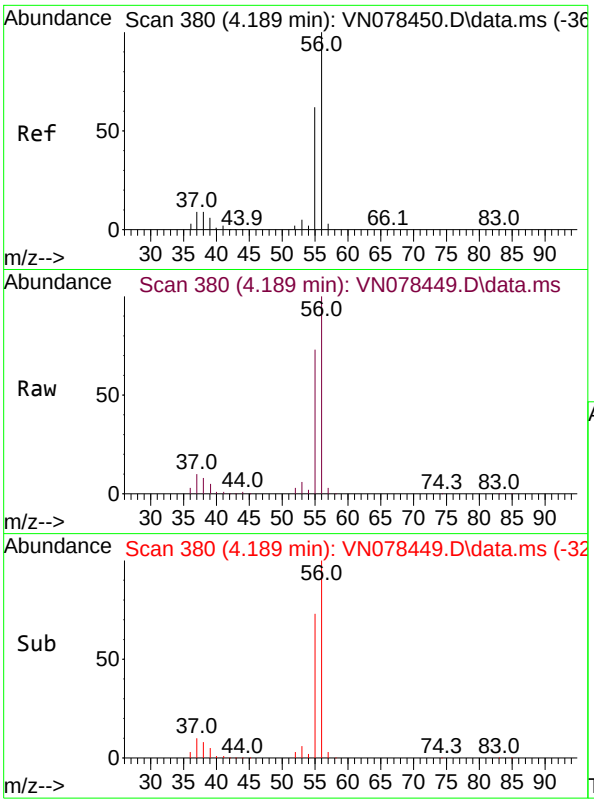


#12
1,1-Dichloroethene
Concen: 95.180 ug/l
RT: 4.347 min Scan# 407
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 96 Resp: 531553

Ion	Ratio	Lower	Upper
96	100		
61	153.2	112.7	169.1
98	64.6	51.2	76.8

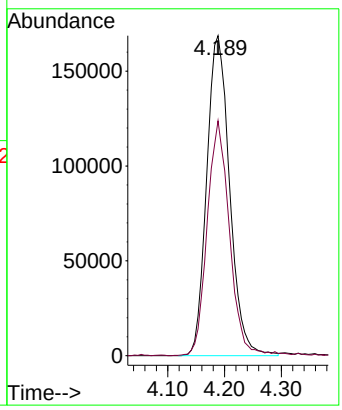




#13
Acrolein
Concen: 439.093 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 56 Resp: 47267

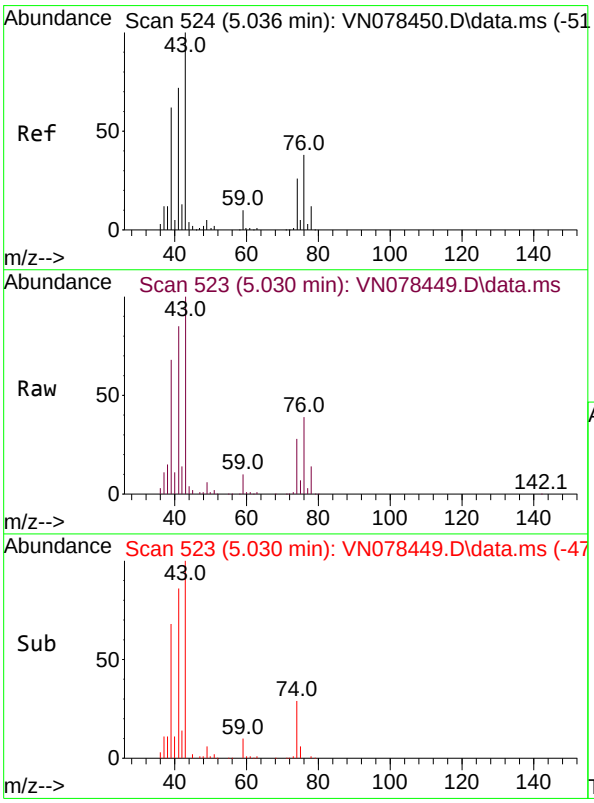
Ion	Ratio	Lower	Upper
56	100		
55	71.0	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

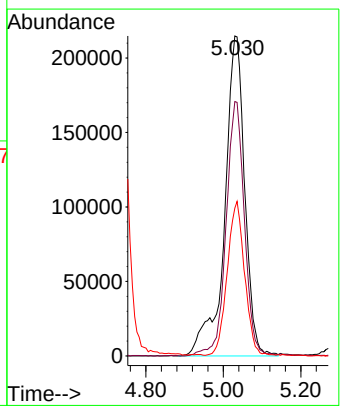
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

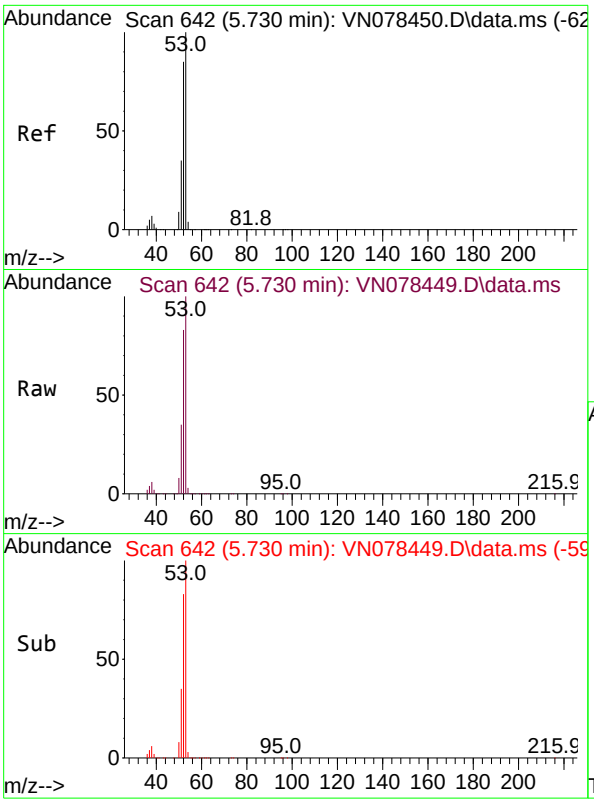


#14
Allyl chloride
Concen: 101.785 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 41 Resp: 776741

Ion	Ratio	Lower	Upper
41	100		
39	72.2	58.8	88.2
76	41.2	39.1	58.7

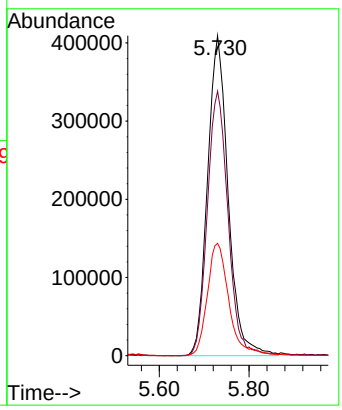




#15
Acrylonitrile
Concen: 471.888 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 53 Resp: 130451

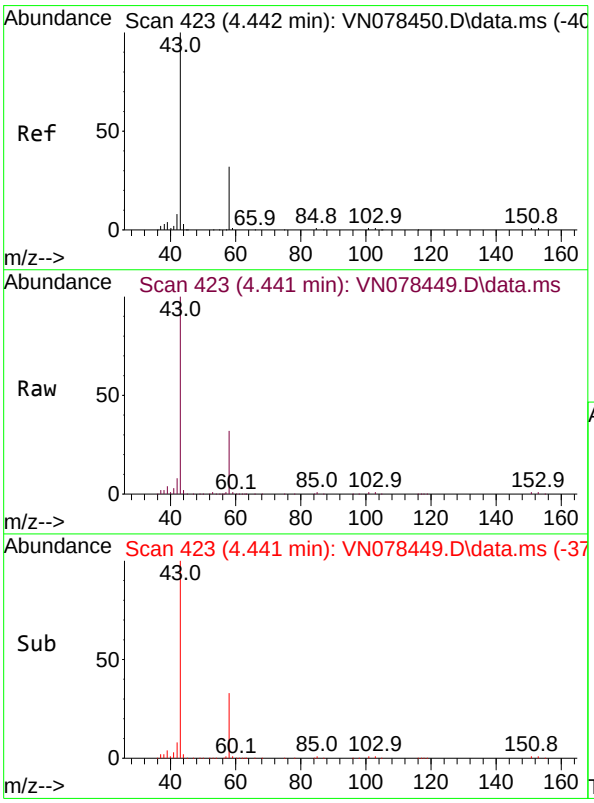
Ion	Ratio	Lower	Upper
53	100		
52	83.2	65.3	97.9
51	37.0	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

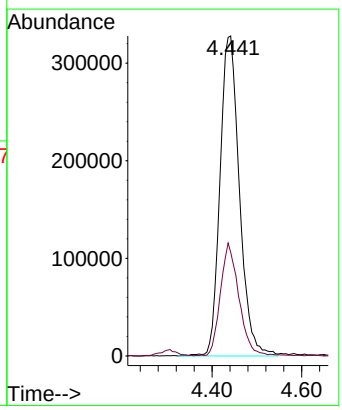
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

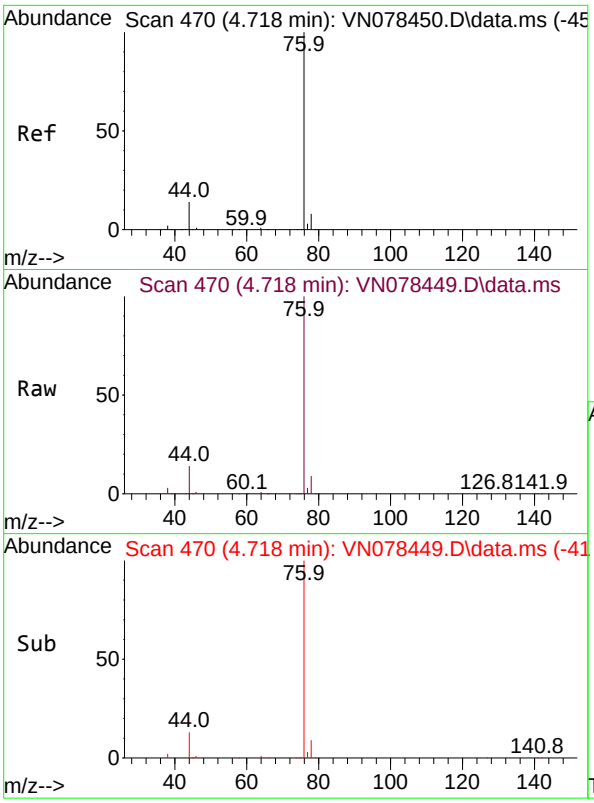


#16
Acetone
Concen: 447.746 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 43 Resp: 989619

Ion	Ratio	Lower	Upper
43	100		
58	32.0	28.0	42.0





#17
Carbon Disulfide
Concen: 92.251 ug/l
RT: 4.718 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

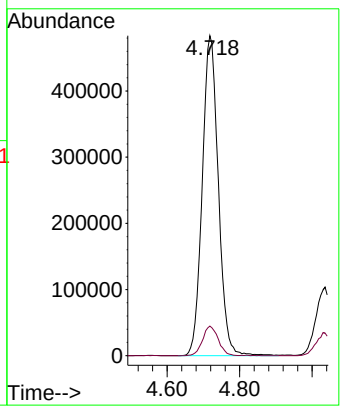
Tgt Ion: 76 Resp: 148977

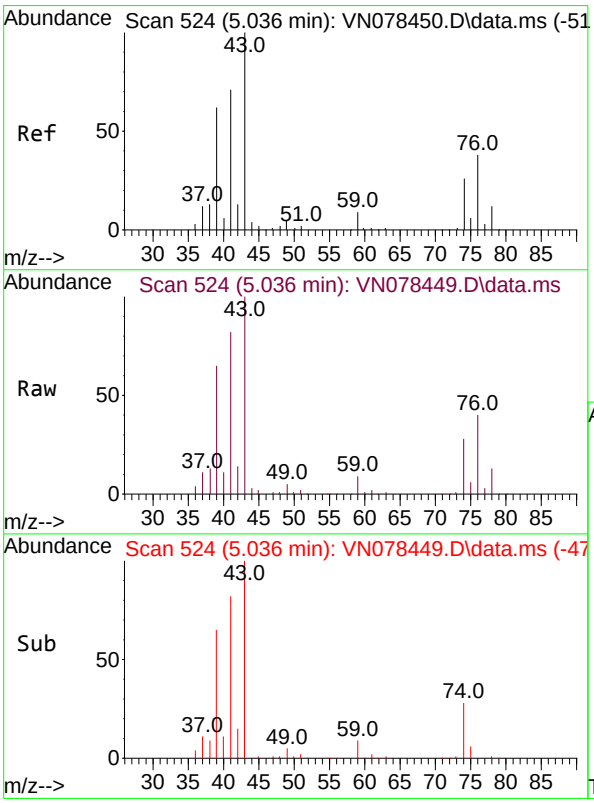
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

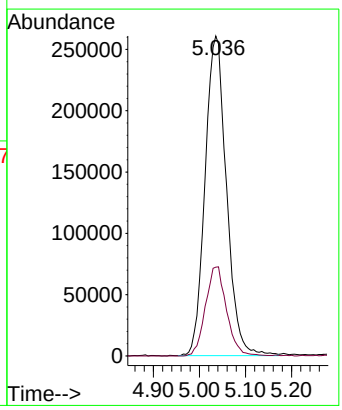


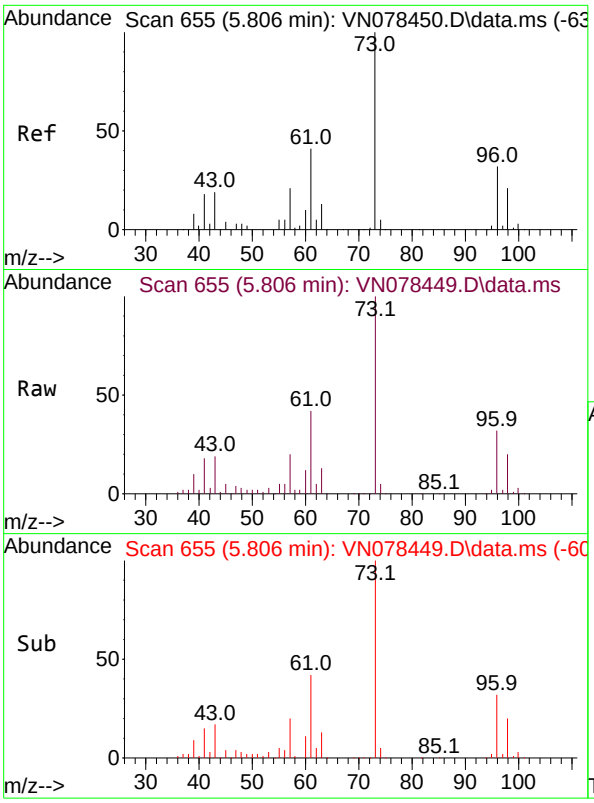


#18
Methyl Acetate
Concen: 90.022 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 43 Resp: 842277

Ion	Ratio	Lower	Upper
43	100		
74	27.6	26.2	39.4

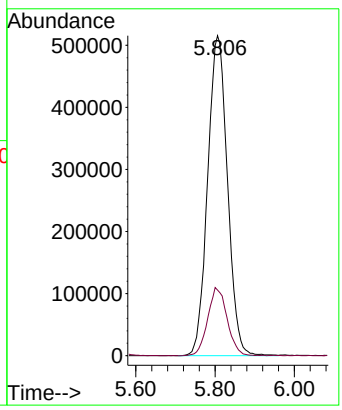




#19
Methyl tert-butyl Ether
Concen: 97.168 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 73 Resp: 178795

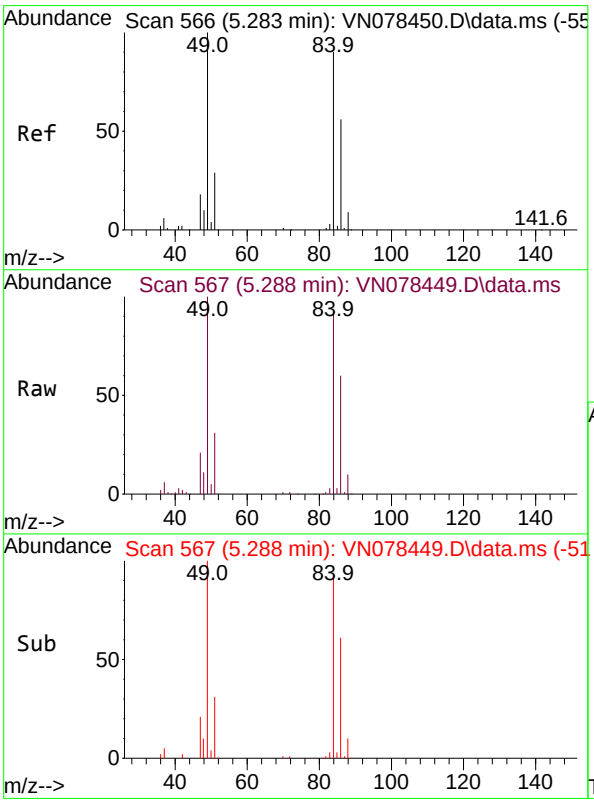
Ion	Ratio	Lower	Upper
73	100		
57	20.5	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

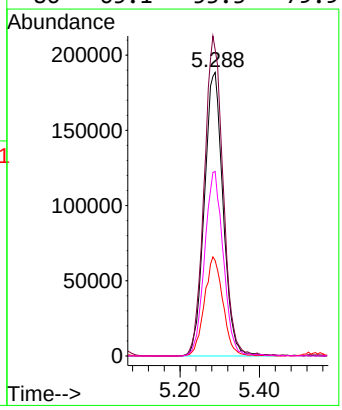
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

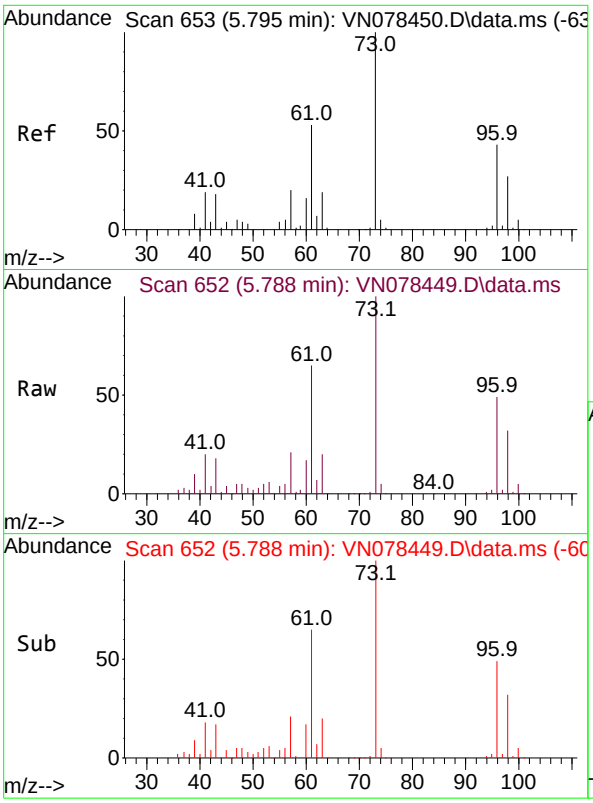


#20
Methylene Chloride
Concen: 99.918 ug/l
RT: 5.288 min Scan# 567
Delta R.T. 0.005 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 84 Resp: 619280

Ion	Ratio	Lower	Upper
84	100		
49	108.0	79.7	119.5
51	33.7	25.2	37.8
86	65.1	53.3	79.9

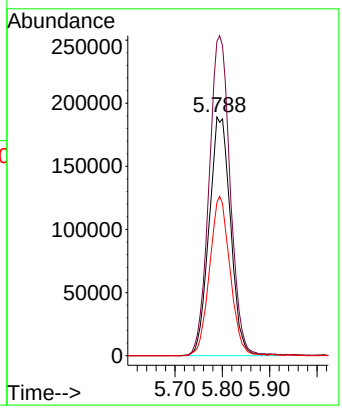




#21
trans-1,2-Dichloroethene
Concen: 94.500 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.007 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 96 Resp: 59471

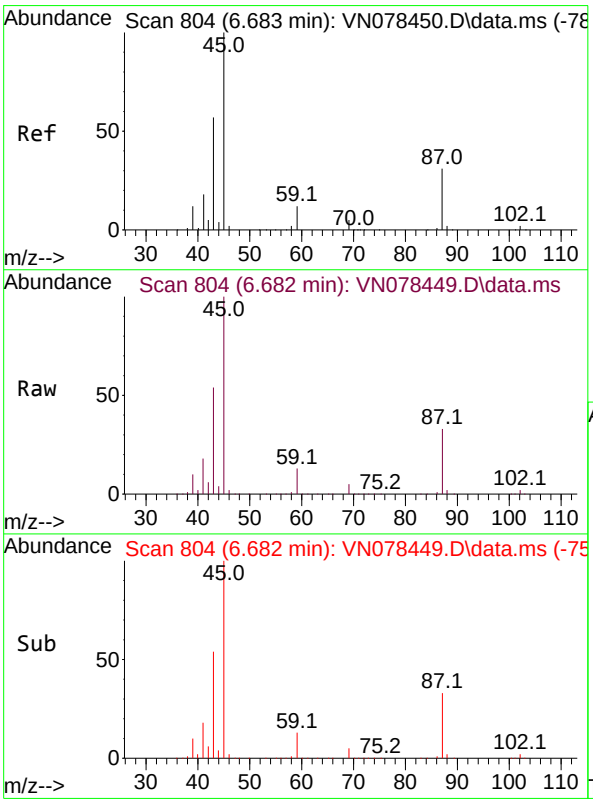
Ion	Ratio	Lower	Upper
96	100		
61	131.7	90.1	135.1
98	64.2	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

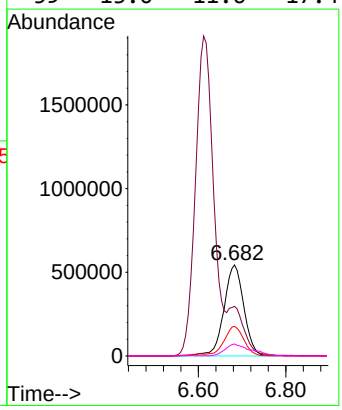
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

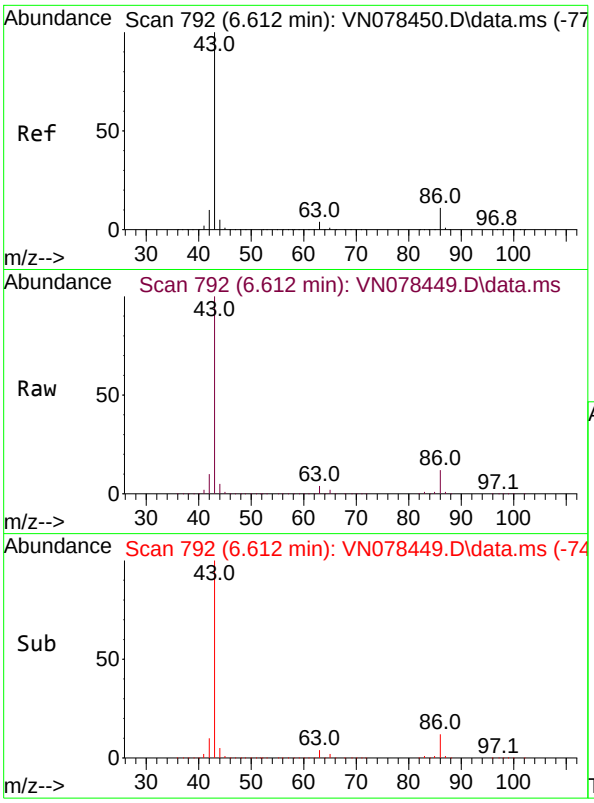


#22
Diisopropyl ether
Concen: 100.349 ug/l
RT: 6.682 min Scan# 804
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 45 Resp: 1714703

Ion	Ratio	Lower	Upper
45	100		
43	53.8	45.5	68.3
87	32.4	31.8	47.8
59	13.0	11.6	17.4





#23
Vinyl Acetate
Concen: 510.470 ug/l
RT: 6.612 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

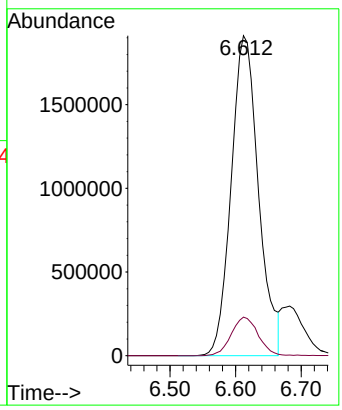
Tgt Ion: 43 Resp: 554529

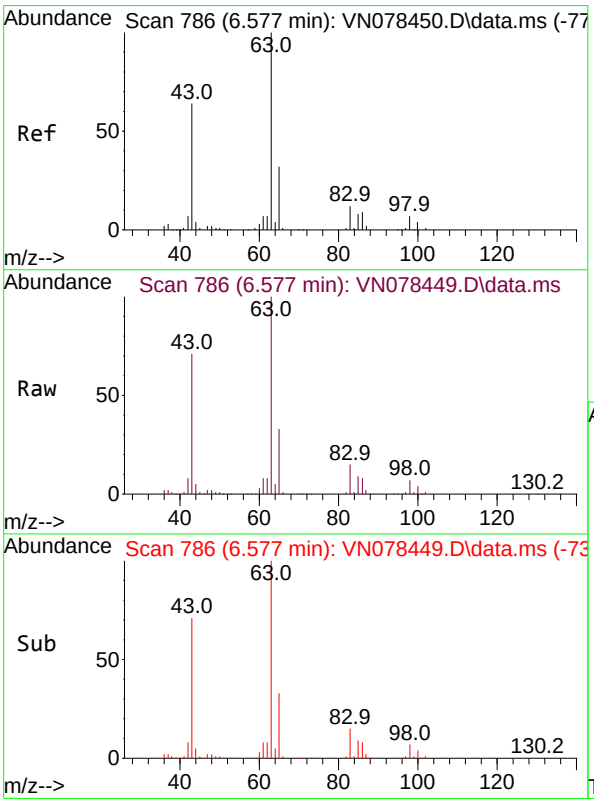
Ion	Ratio	Lower	Upper
43	100		
86	12.0	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

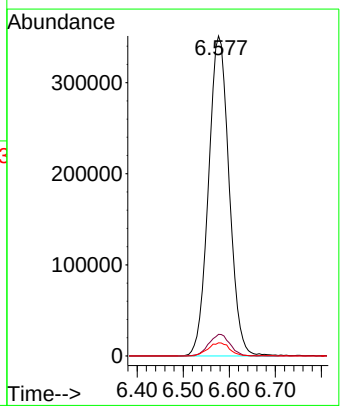


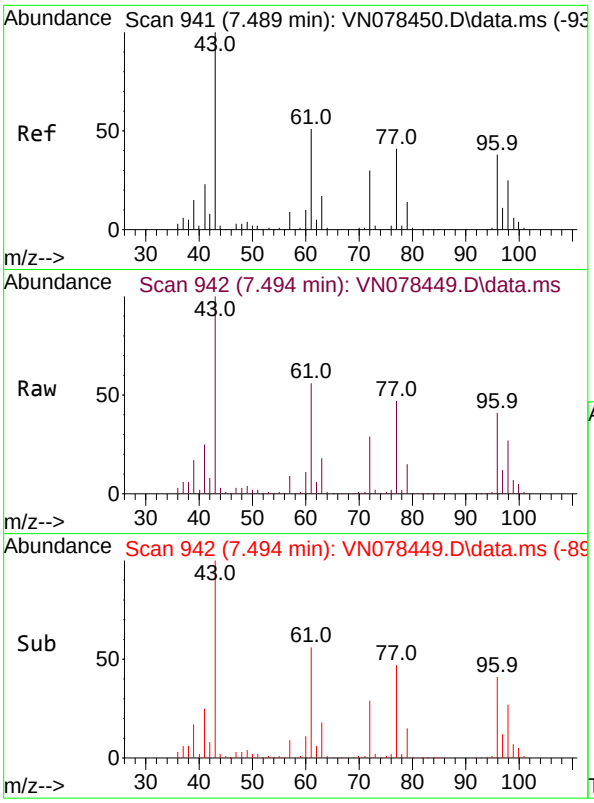


#24
1,1-Dichloroethane
Concen: 94.898 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 63 Resp: 1092661

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.9	11.7
100	4.1	2.5	7.4





#25
2-Butanone
Concen: 477.304 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.005 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

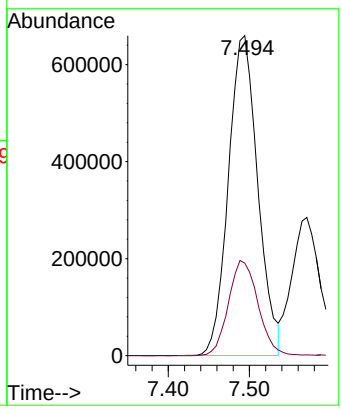
Tgt Ion: 43 Resp: 166063

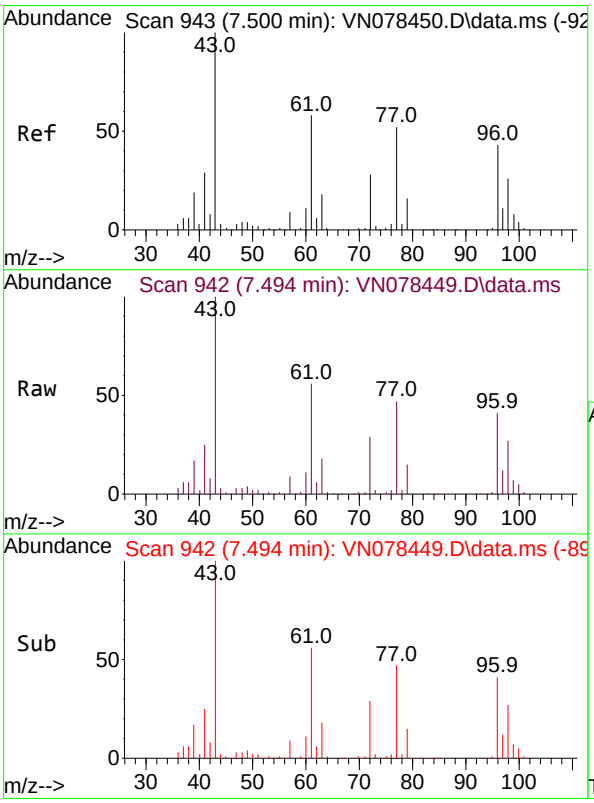
Ion	Ratio	Lower	Upper
43	100		
72	29.0	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

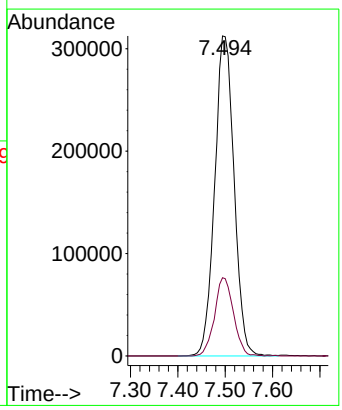


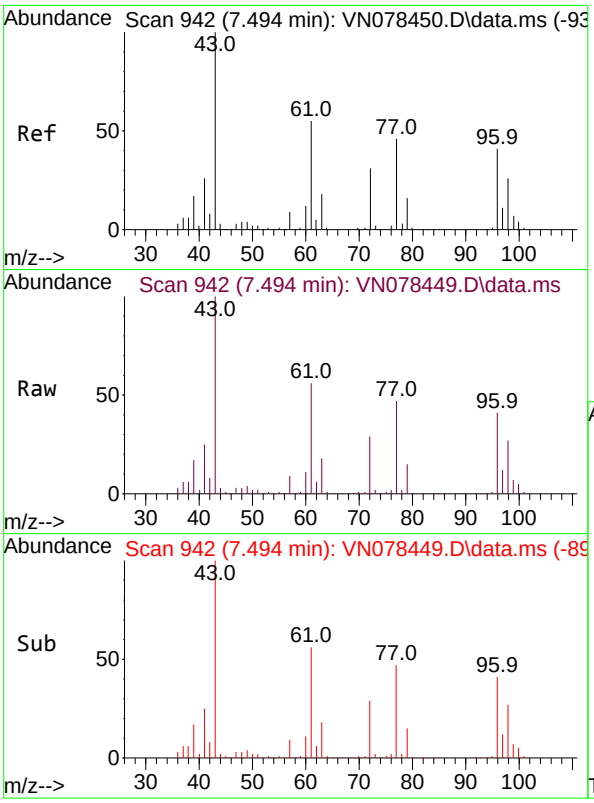


#26
2,2-Dichloropropane
Concen: 94.354 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 77 Resp: 888554

Ion	Ratio	Lower	Upper
77	100		
97	23.9	11.2	33.6

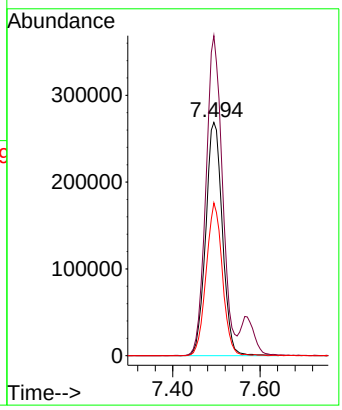




#27
cis-1,2-Dichloroethene
Concen: 97.820 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 96 Resp: 71216

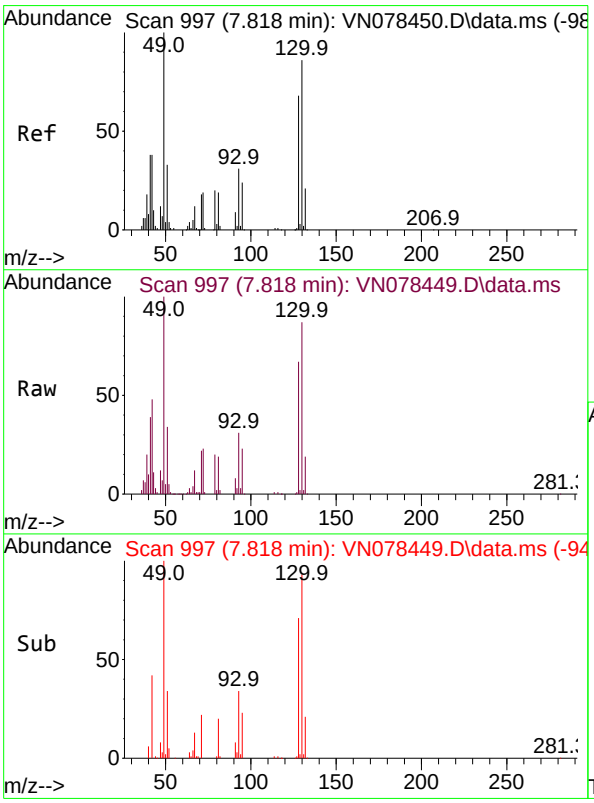
Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	255.2
98	63.6	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

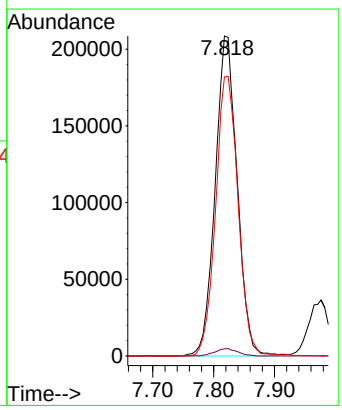
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

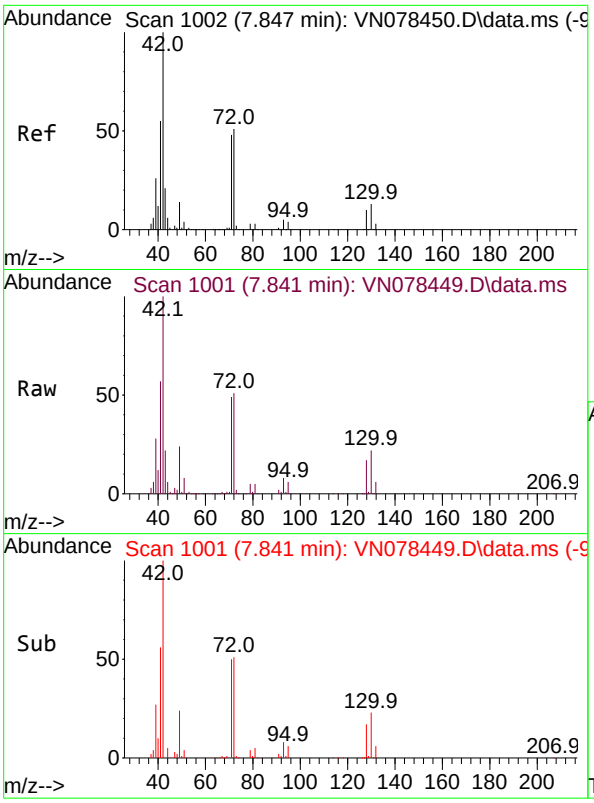


#28
Bromochloromethane
Concen: 96.276 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 49 Resp: 522124

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.8
130	89.5	75.3	112.9

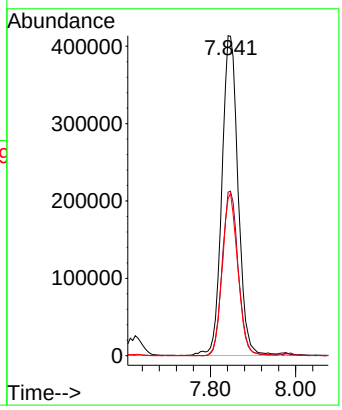




#29
Tetrahydrofuran
Concen: 477.975 ug/l
RT: 7.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 42 Resp: 109118

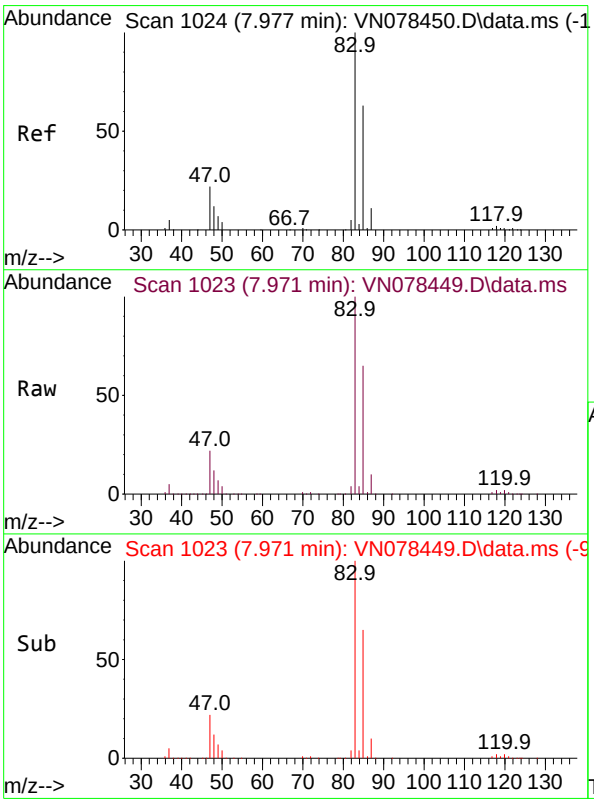
Ion	Ratio	Lower	Upper
42	100		
72	50.5	49.8	74.6
71	48.8	47.4	71.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

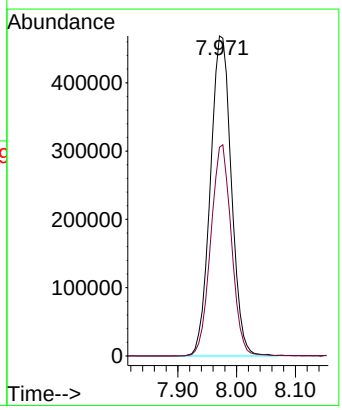
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

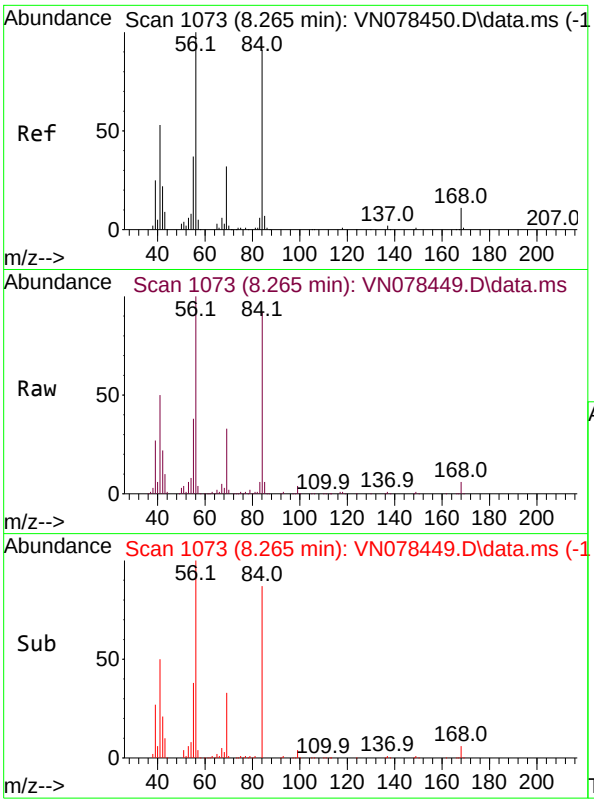


#30
Chloroform
Concen: 96.940 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 83 Resp: 1162056

Ion	Ratio	Lower	Upper
83	100		
85	65.2	55.4	83.0

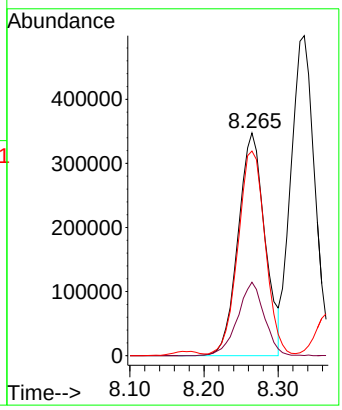




#31
Cyclohexane
Concen: 91.053 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 56 Resp: 87312

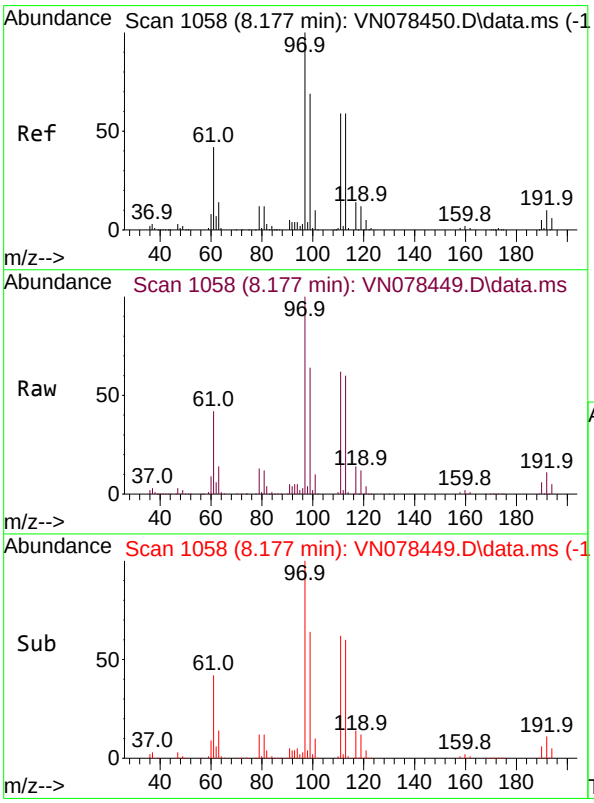
Ion	Ratio	Lower	Upper
56	100		
69	32.9	26.8	40.2
84	90.2	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

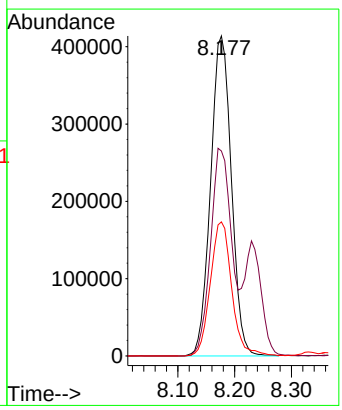
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

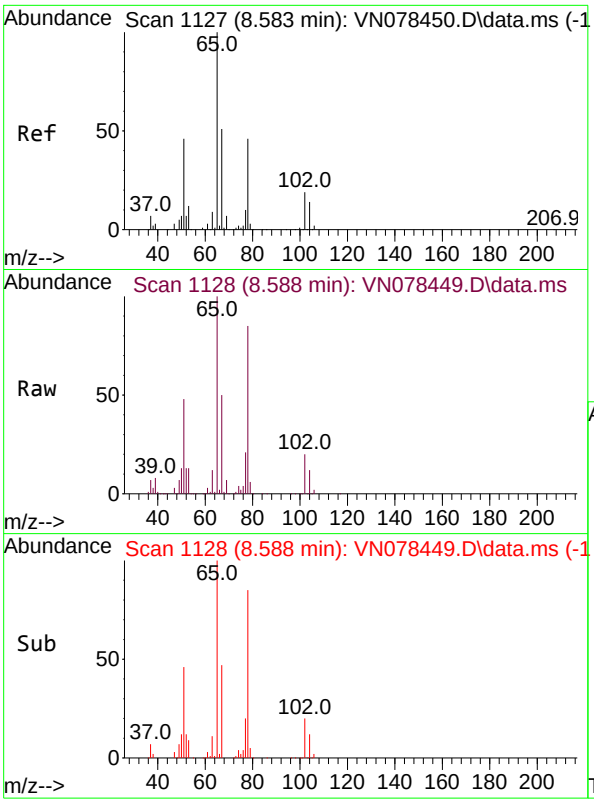


#32
1,1,1-Trichloroethane
Concen: 97.825 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 97 Resp: 1051373

Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.3	75.5
61	43.1	34.7	52.1

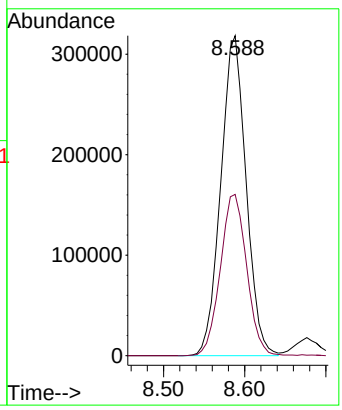




#33
1,2-Dichloroethane-d4
Concen: 97.226 ug/l
RT: 8.588 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 65 Resp: 68986

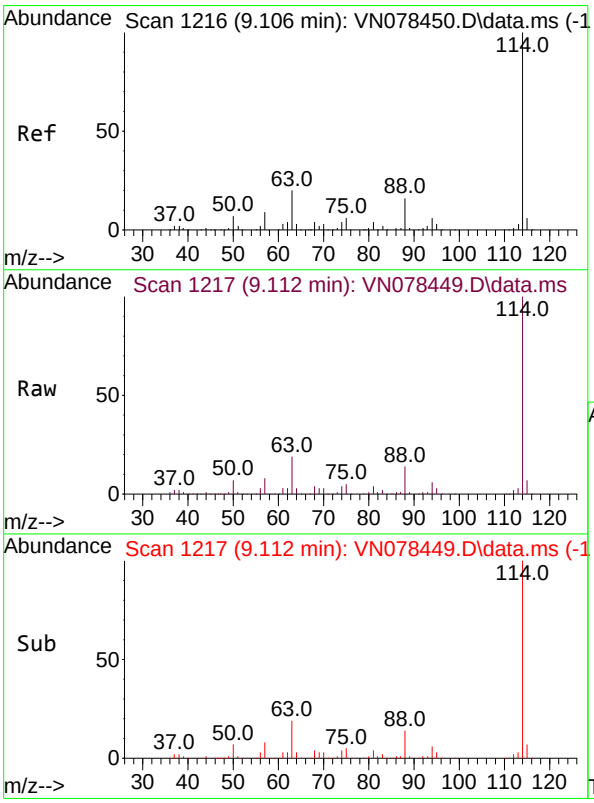
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

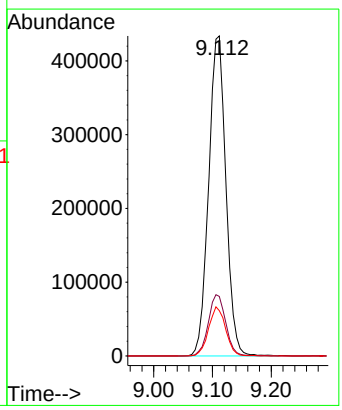
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

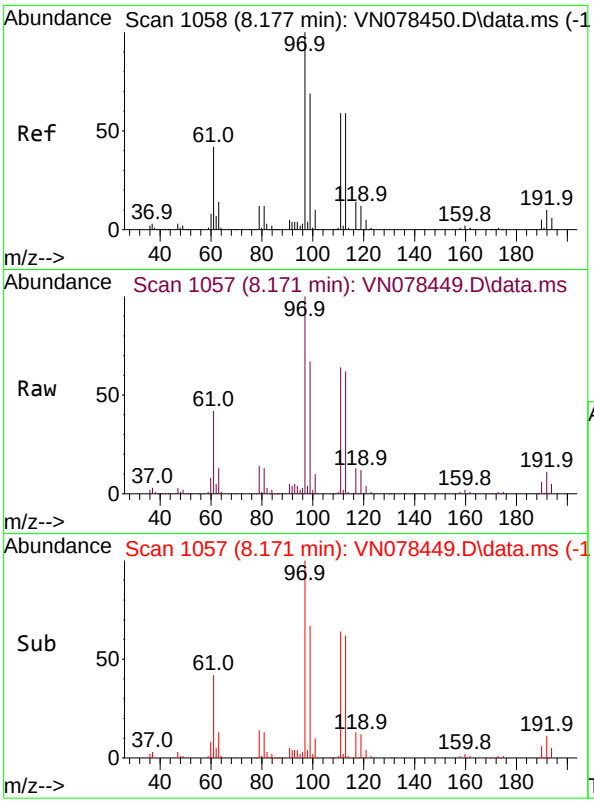


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:114 Resp: 884816

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	36.4
88	14.2	0.0	30.6

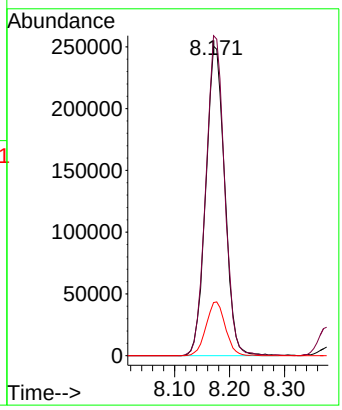




#35
Dibromofluoromethane
Concen: 99.718 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:113 Resp: 59894

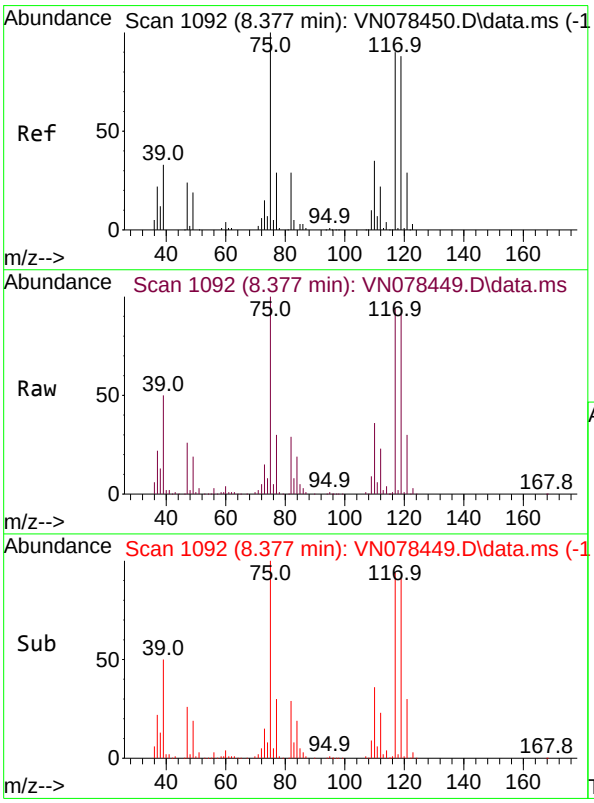
Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	17.7	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

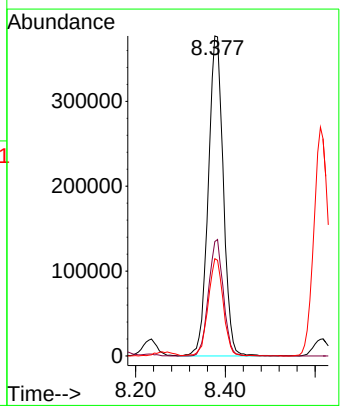
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

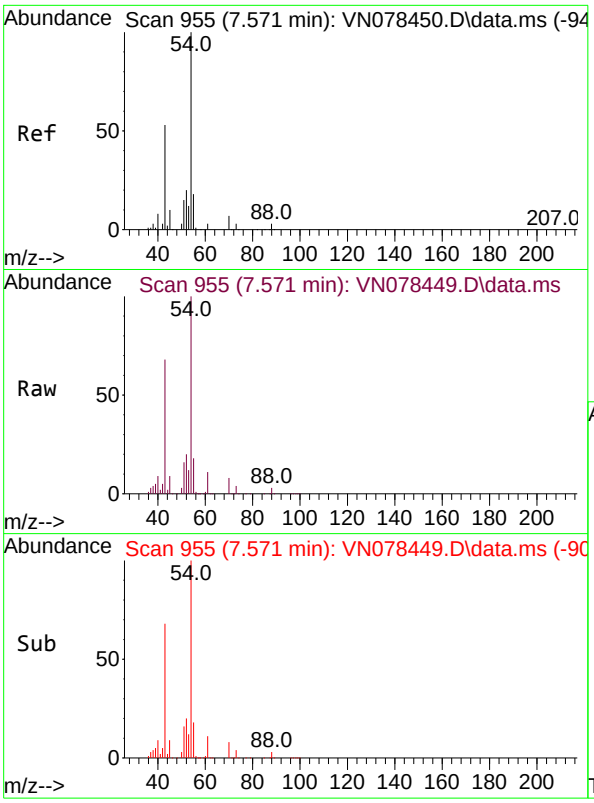


#36
1,1-Dichloropropene
Concen: 101.073 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 876574

Ion	Ratio	Lower	Upper
75	100		
110	35.8	19.1	57.3
77	30.1	25.0	37.4





#37
Ethyl Acetate
Concen: 98.754 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

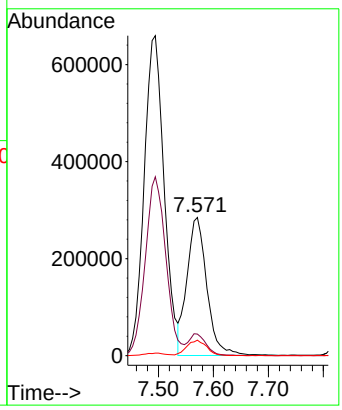
Tgt Ion: 43 Resp: 71396

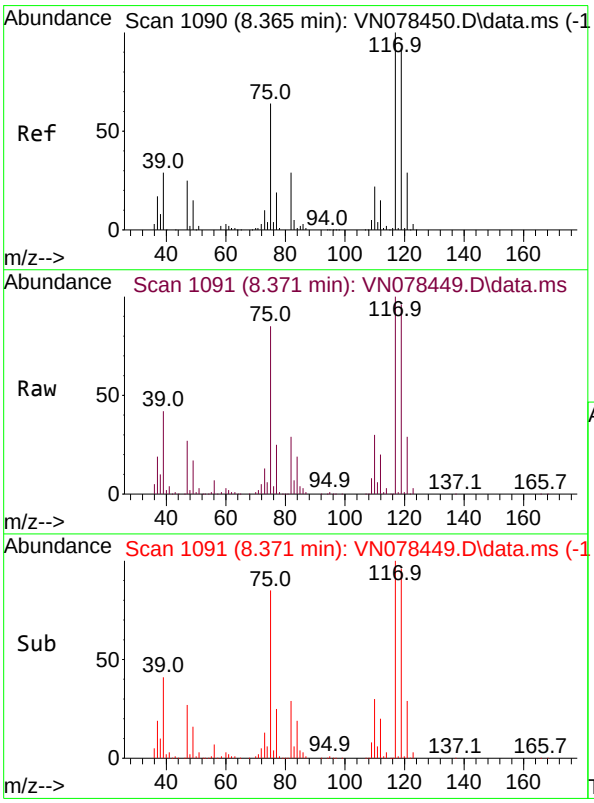
Ion	Ratio	Lower	Upper
43	100		
61	13.7	13.2	19.8
70	11.1	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

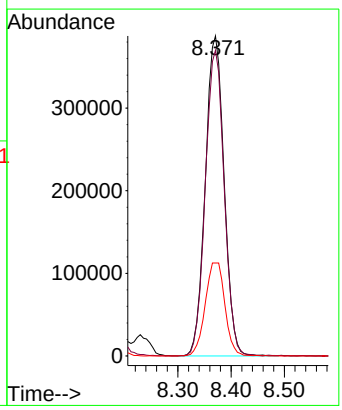


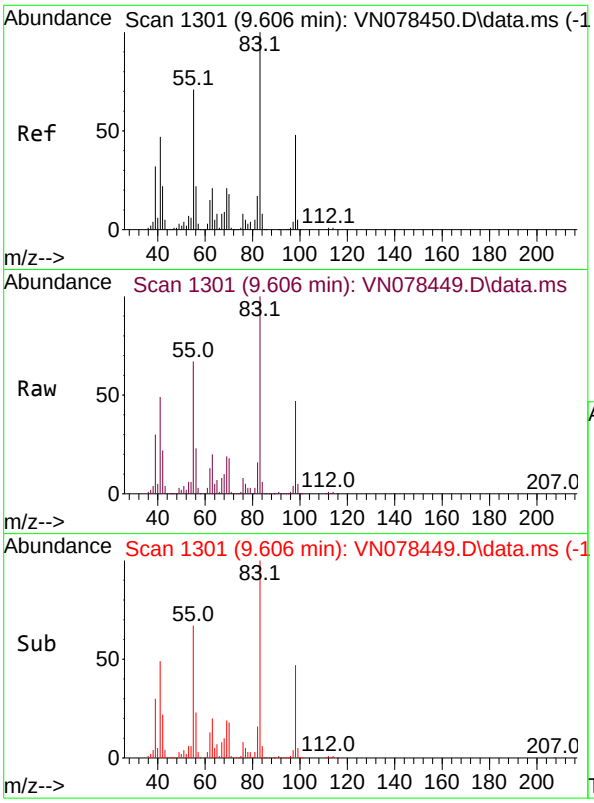


#38
Carbon Tetrachloride
Concen: 100.894 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:117 Resp: 951010

Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.3	115.9
121	29.1	23.3	34.9





#39
Methylcyclohexane
Concen: 103.718 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

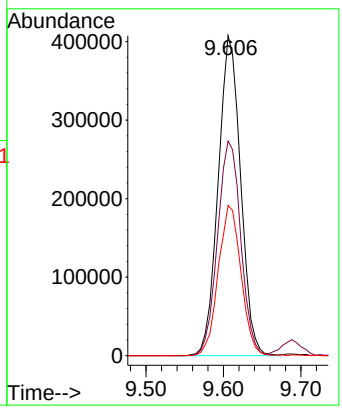
Tgt Ion: 83 Resp: 82107

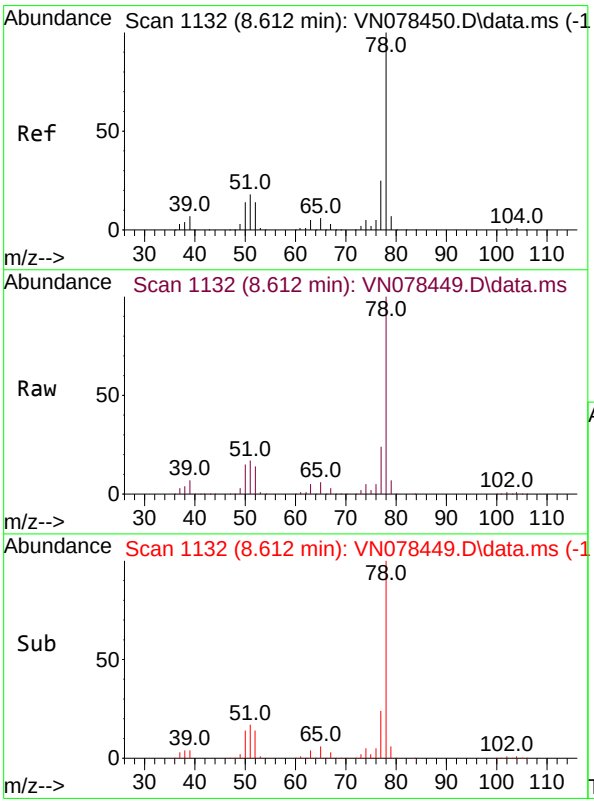
Ion	Ratio	Lower	Upper
83	100		
55	67.0	49.1	73.7
98	47.0	40.6	61.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

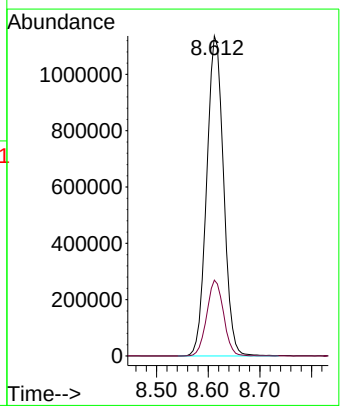


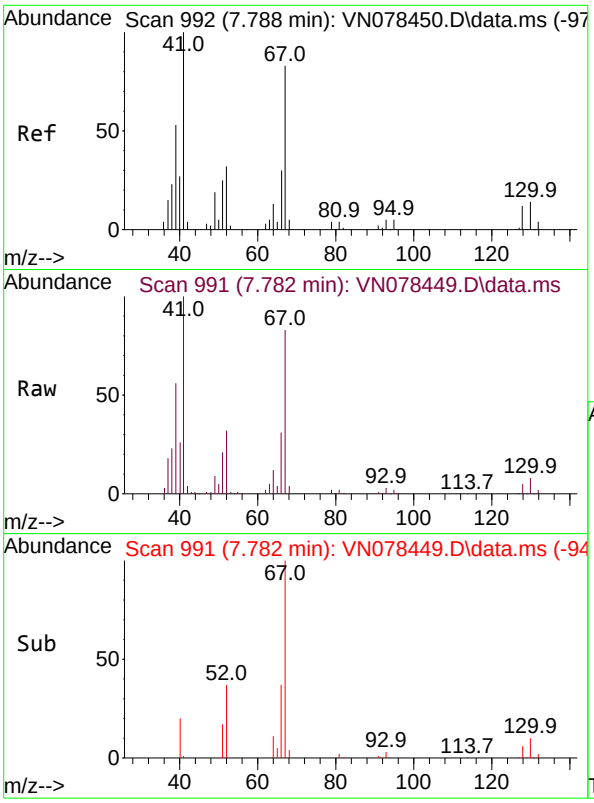


#40
Benzene
Concen: 100.399 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 78 Resp: 2579598

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6

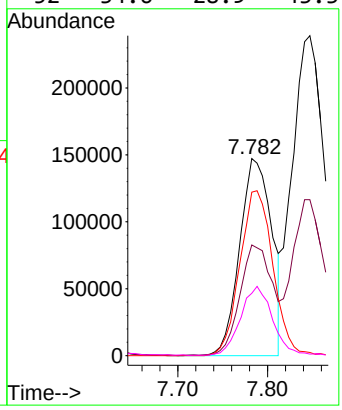




#41
Methacrylonitrile
Concen: 99.379 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 41 Resp: 36627

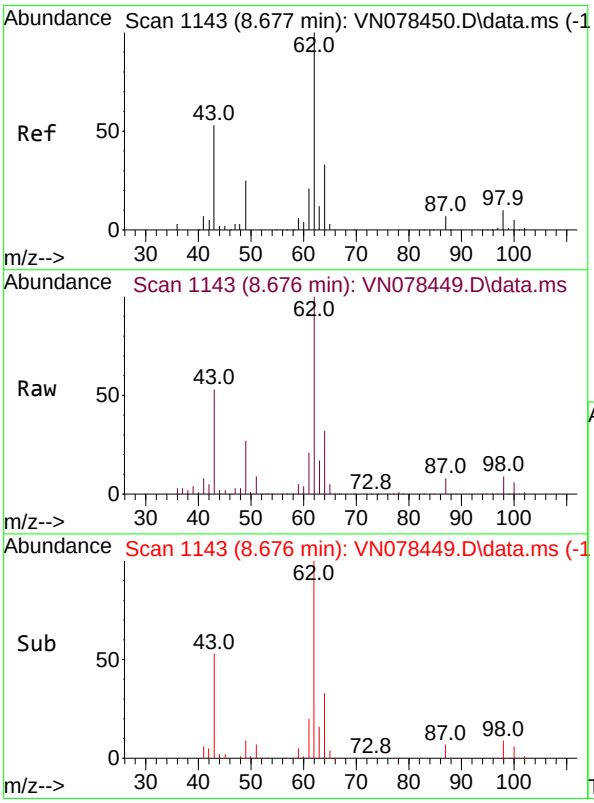
Ion	Ratio	Lower	Upper
41	100		
39	56.2	42.6	64.0
67	86.5	77.5	116.3
52	34.6	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

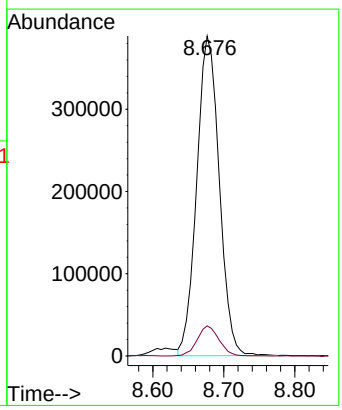
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

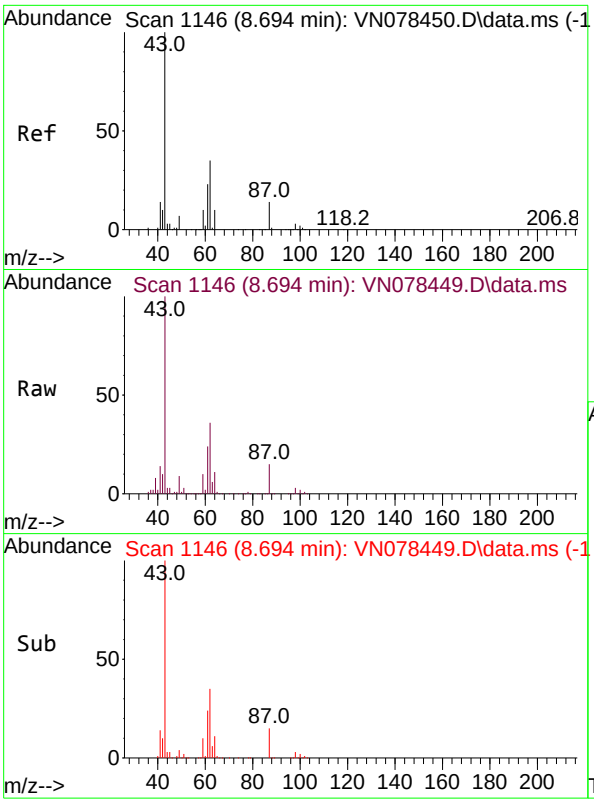


#42
1,2-Dichloroethane
Concen: 98.306 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 62 Resp: 859129

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	19.8





#43
Isopropyl Acetate
Concen: 100.898 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

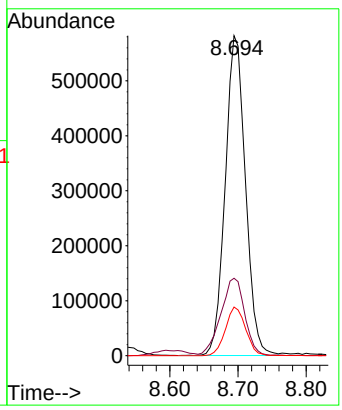
Tgt Ion: 43 Resp: 120097

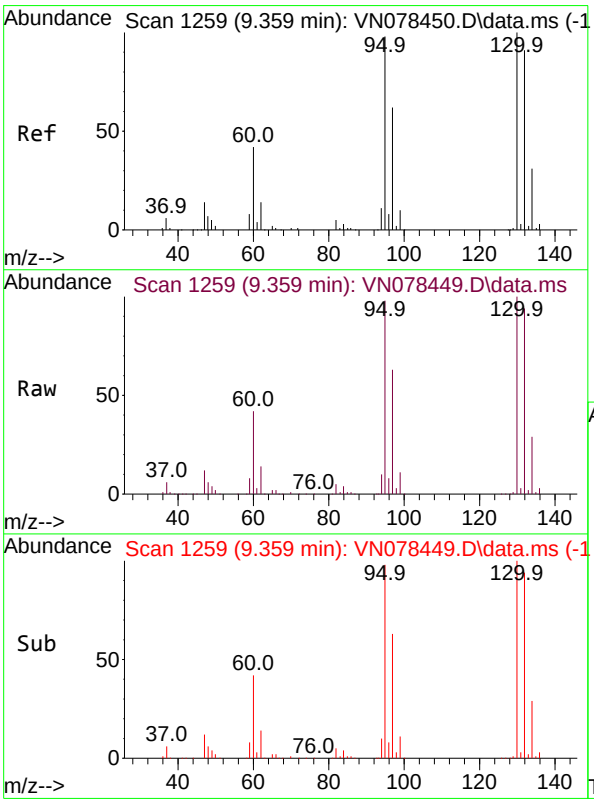
Ion	Ratio	Lower	Upper
43	100		
61	28.6	24.7	37.1
87	15.3	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

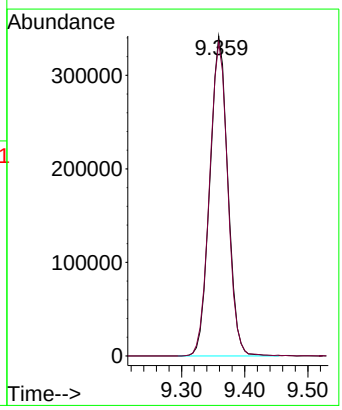


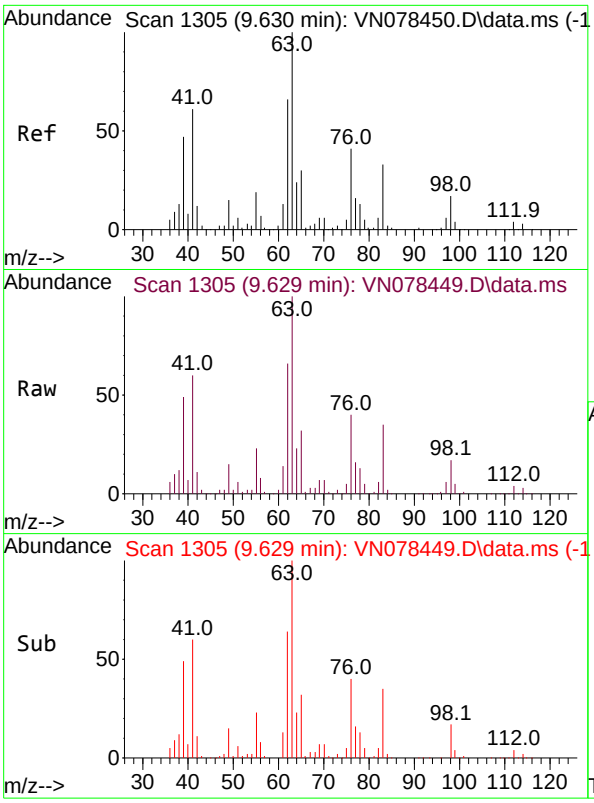


#44
Trichloroethene
Concen: 97.708 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:130 Resp: 676620

Ion	Ratio	Lower	Upper
130	100		
95	97.9	0.0	204.6

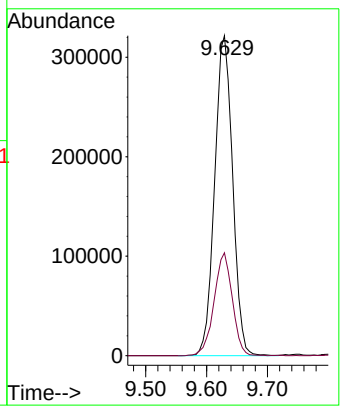




#45
1,2-Dichloropropane
Concen: 101.295 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 63 Resp: 65918

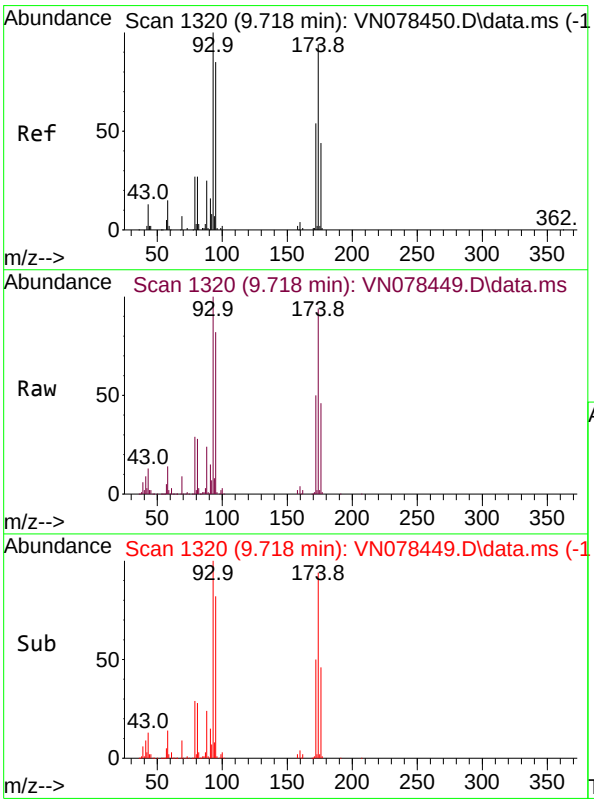
Ion	Ratio	Lower	Upper
63	100		
65	32.2	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

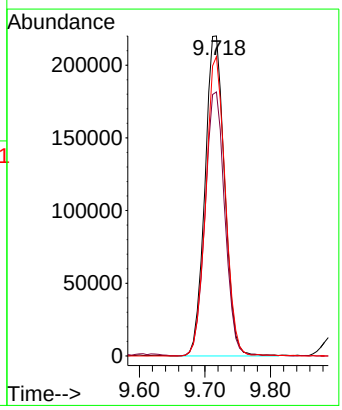
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

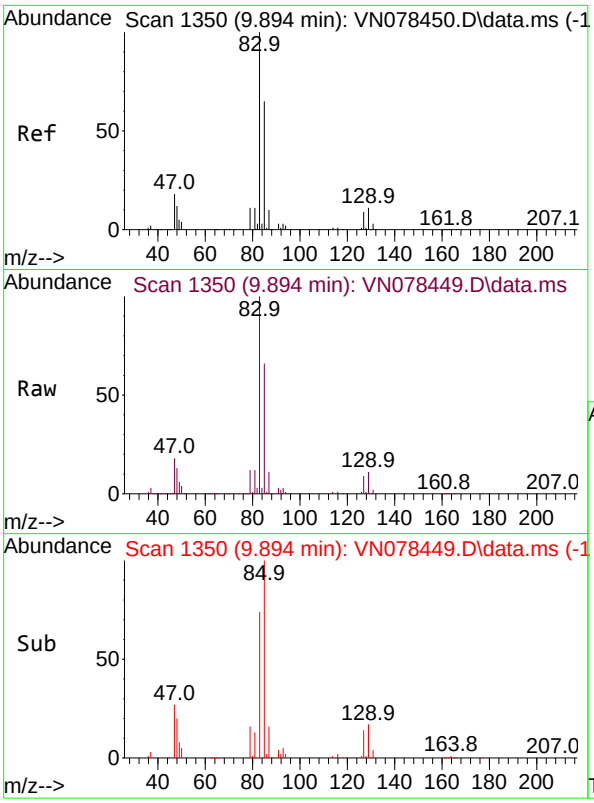


#46
Dibromomethane
Concen: 100.082 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 93 Resp: 458394

Ion	Ratio	Lower	Upper
93	100		
95	83.0	63.8	95.8
174	92.2	65.6	98.4

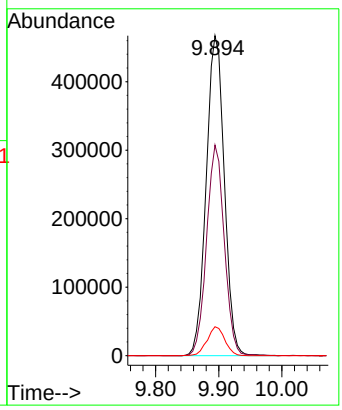




#47
Bromodichloromethane
Concen: 101.438 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 83 Resp: 93132

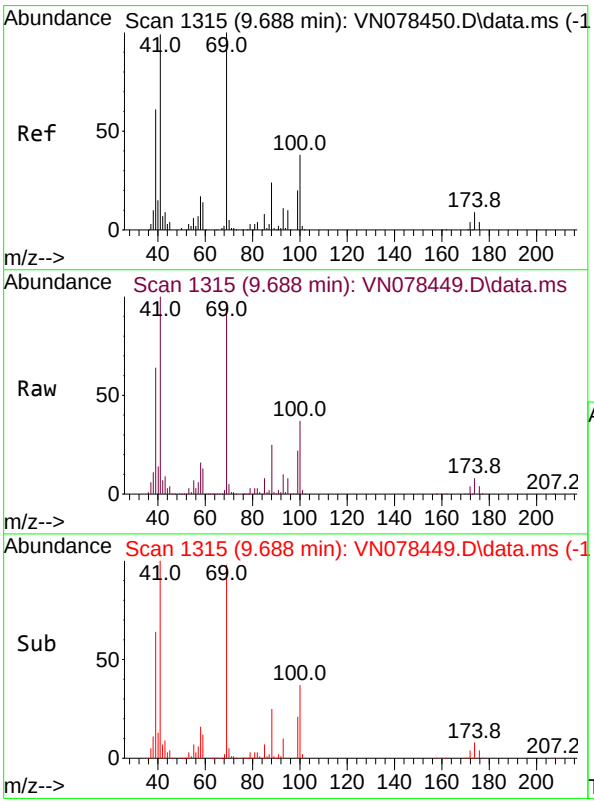
Ion	Ratio	Lower	Upper
83	100		
85	65.8	49.6	74.4
127	9.1	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

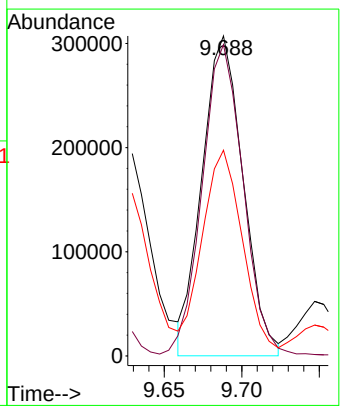
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

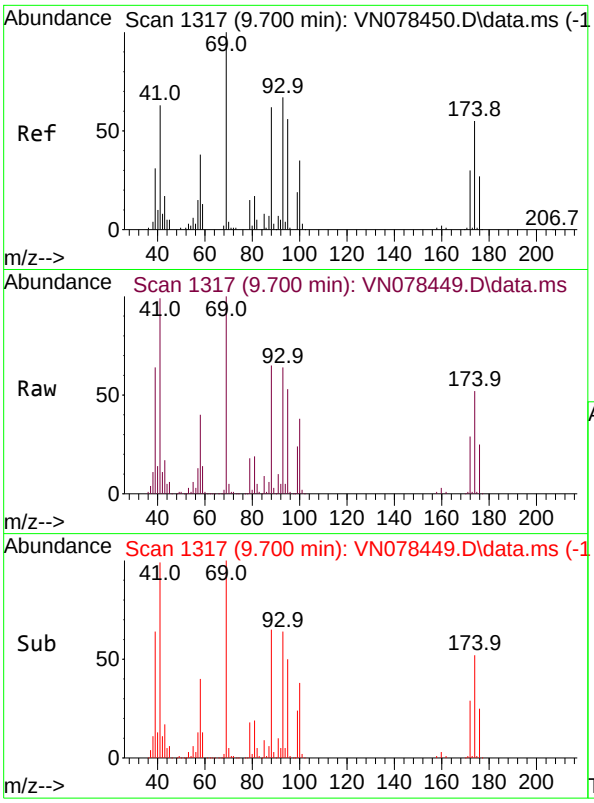


#48
Methyl methacrylate
Concen: 102.480 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 41 Resp: 565122

Ion	Ratio	Lower	Upper
41	100		
69	98.0	90.4	135.6
39	63.9	54.6	81.8

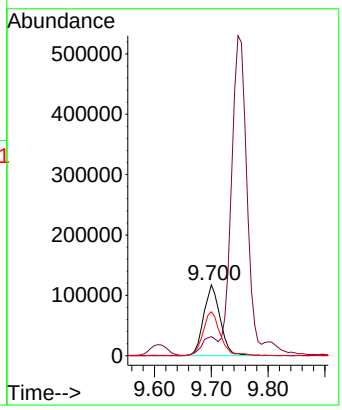




#49
1,4-Dioxane
Concen: 1961.710 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 88 Resp: 23591

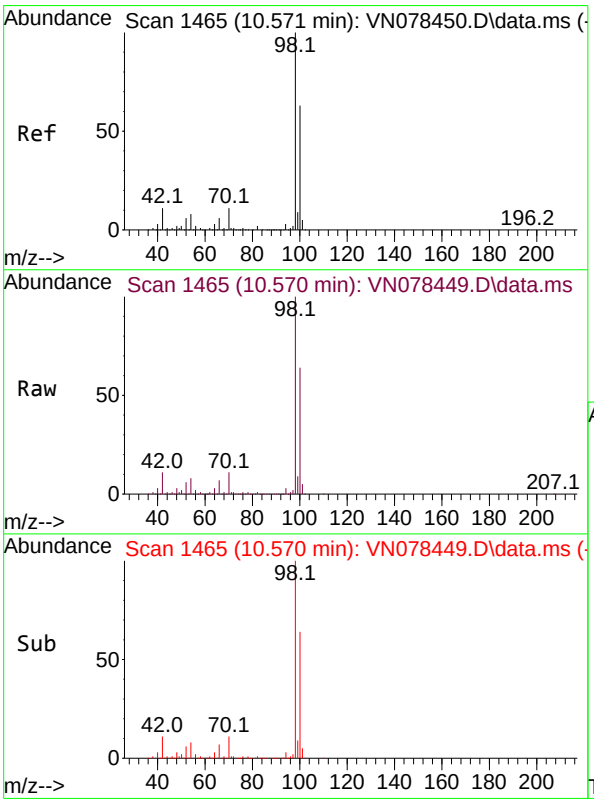
Ion	Ratio	Lower	Upper
88	100		
43	25.2	17.0	25.6
58	64.8	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

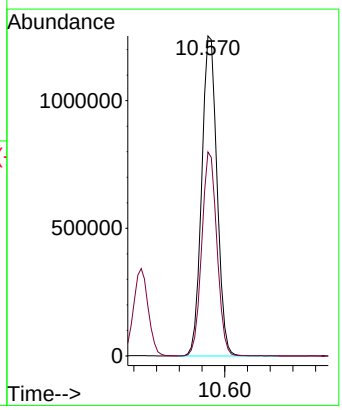
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

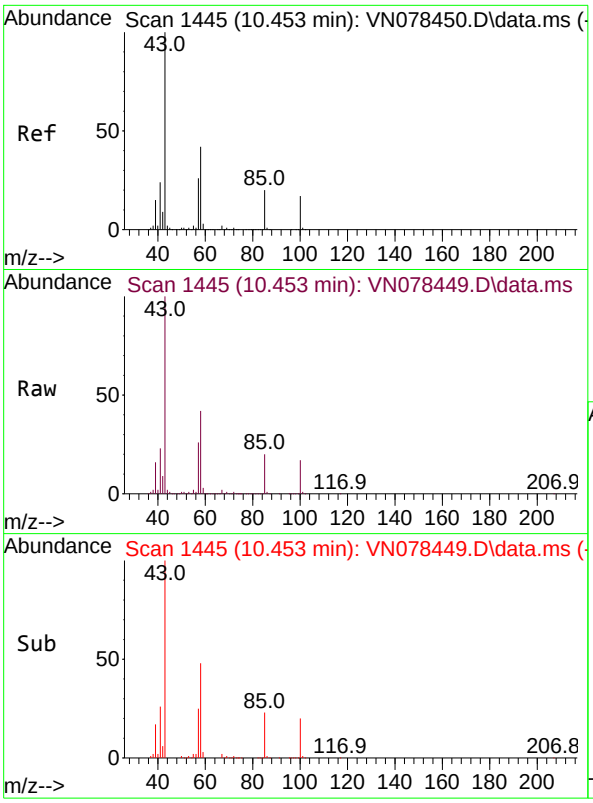


#50
Toluene-d8
Concen: 102.836 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 98 Resp: 2333382

Ion	Ratio	Lower	Upper
98	100		
100	63.1	52.0	78.0

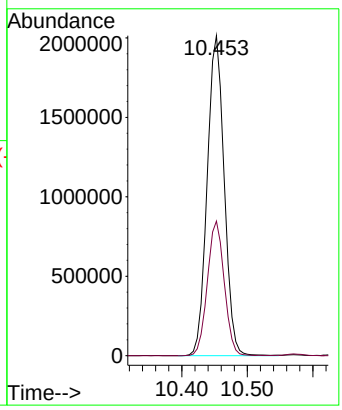




#51
4-Methyl-2-Pentanone
Concen: 512.021 ug/l
RT: 10.453 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 43 Resp: 362507

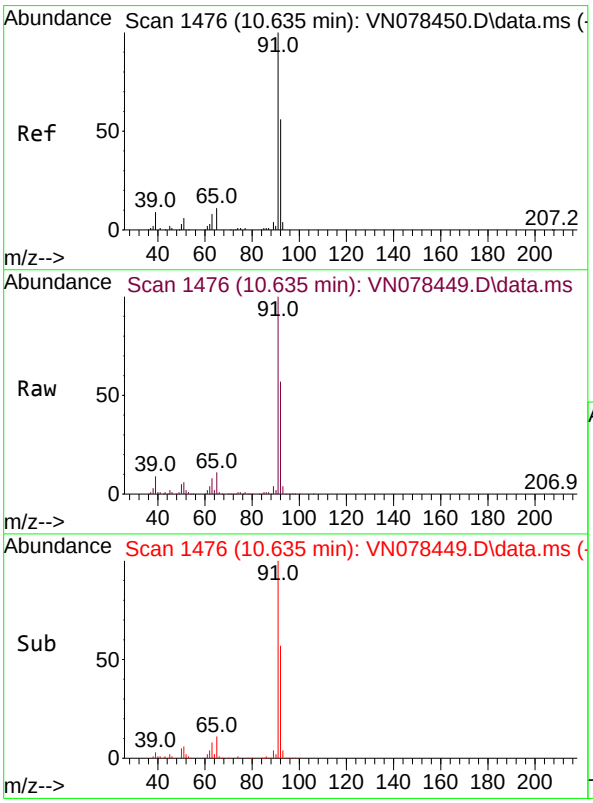
Ion	Ratio	Lower	Upper
43	100		
58	41.7	36.6	54.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

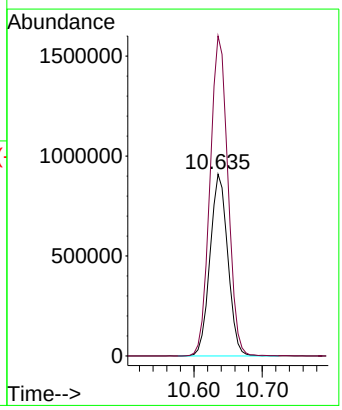
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

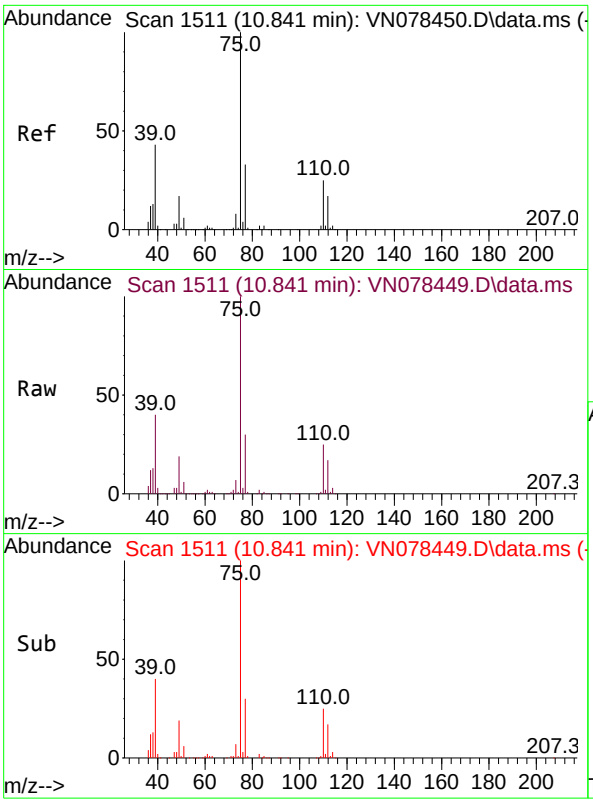


#52
Toluene
Concen: 103.357 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 92 Resp: 1645878

Ion	Ratio	Lower	Upper
92	100		
91	178.1	137.4	206.0

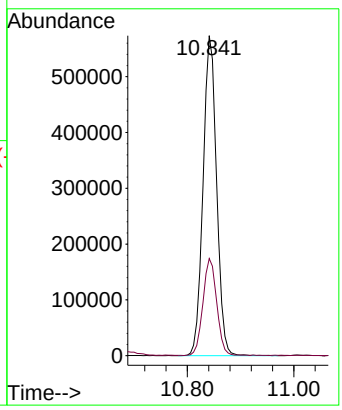




#53
t-1,3-Dichloropropene
Concen: 107.193 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 100824

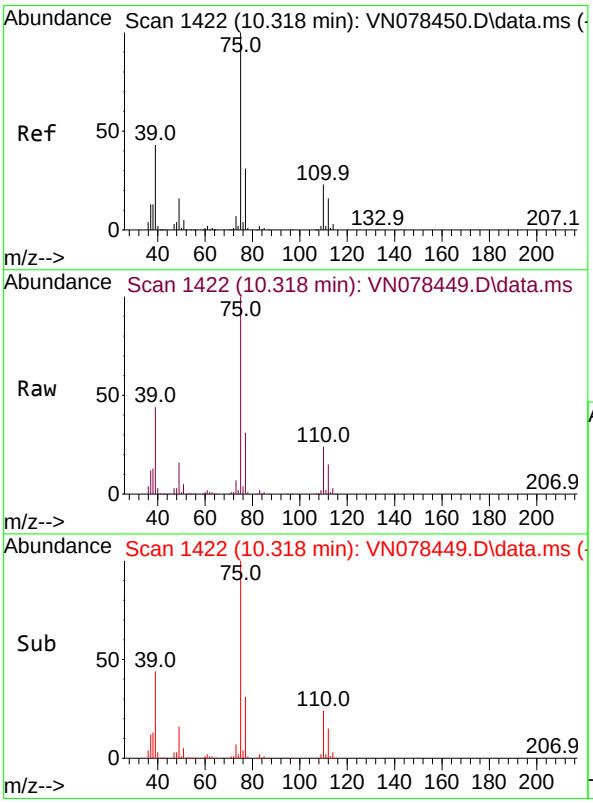
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

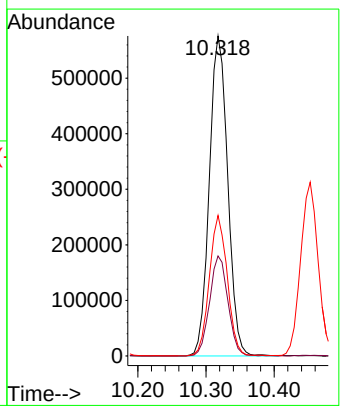
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

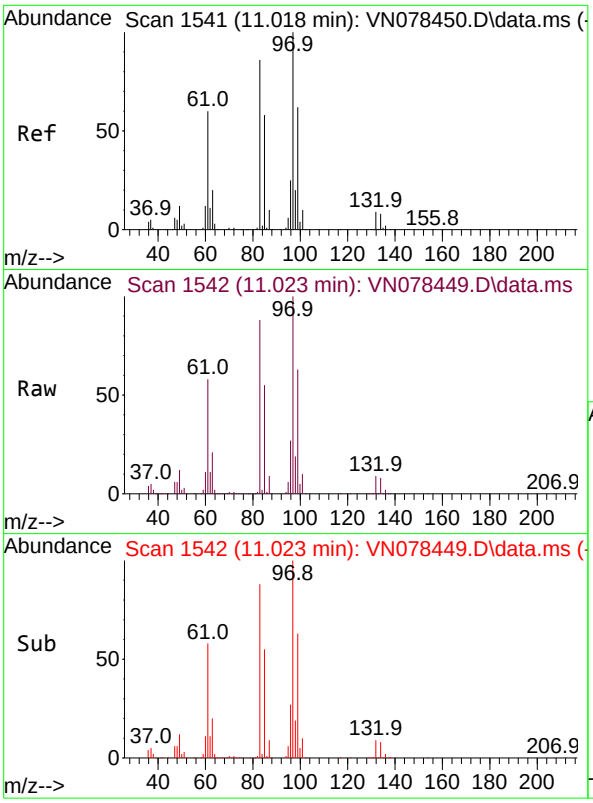


#54
cis-1,3-Dichloropropene
Concen: 107.895 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 1081769

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.1	39.1
39	43.9	31.6	47.4

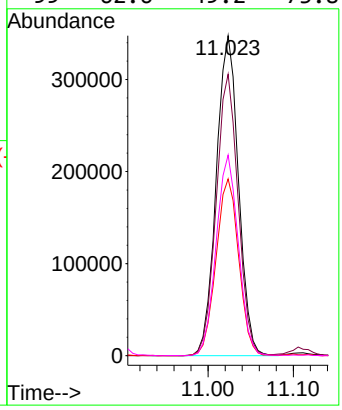




#55
1,1,2-Trichloroethane
Concen: 100.440 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 97 Resp: 63016

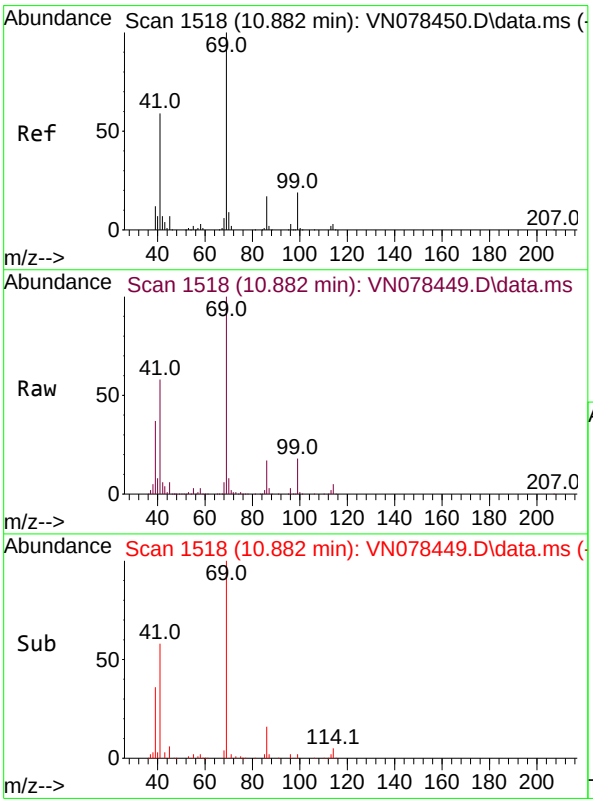
Ion	Ratio	Lower	Upper
97	100		
83	87.9	65.1	97.7
85	55.2	43.4	65.2
99	62.6	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

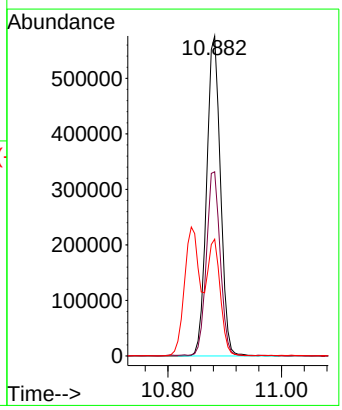
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

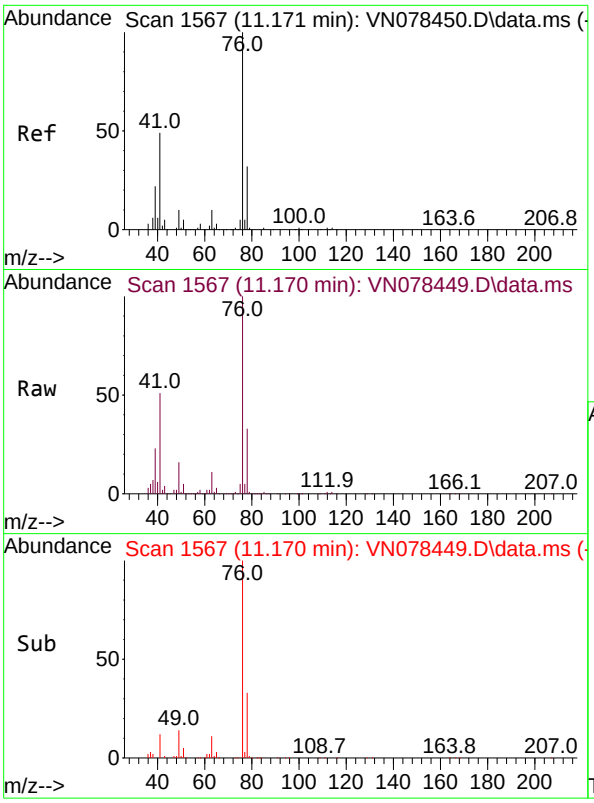


#56
Ethyl methacrylate
Concen: 110.491 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 69 Resp: 969055

Ion	Ratio	Lower	Upper
69	100		
41	57.5	39.6	59.4
39	32.4	28.6	43.0

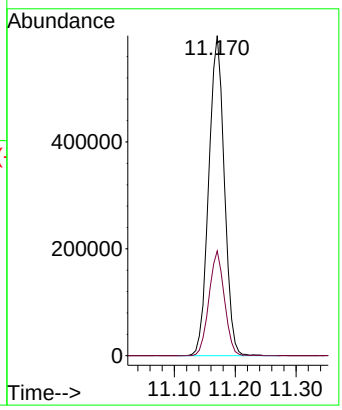




#57
1,3-Dichloropropane
Concen: 99.690 ug/l
RT: 11.170 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 76 Resp: 106347

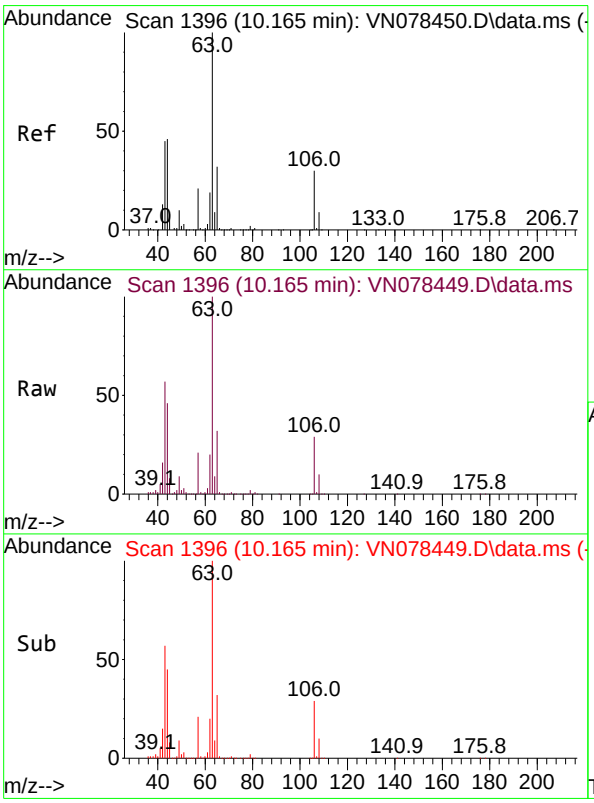
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

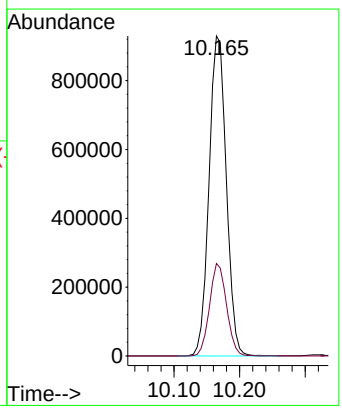
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

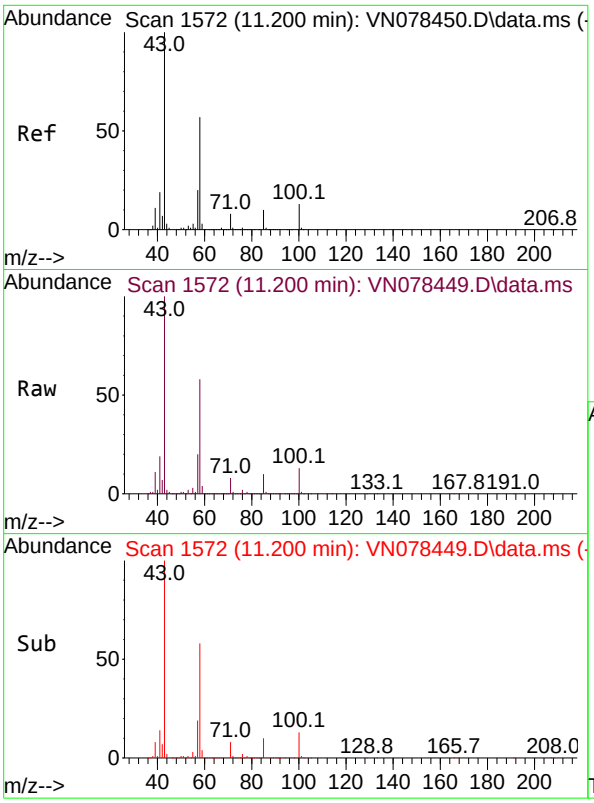


#58
2-Chloroethyl Vinyl ether
Concen: 543.575 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 63 Resp: 1698978

Ion	Ratio	Lower	Upper
63	100		
106	28.4	26.2	39.4





#59
2-Hexanone
Concen: 514.873 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

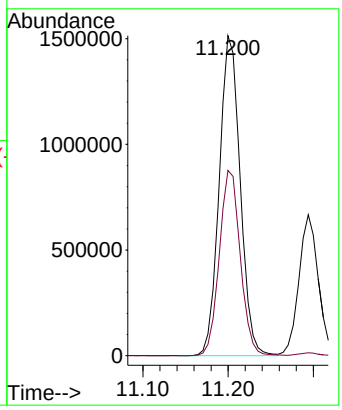
Tgt Ion: 43 Resp: 259073

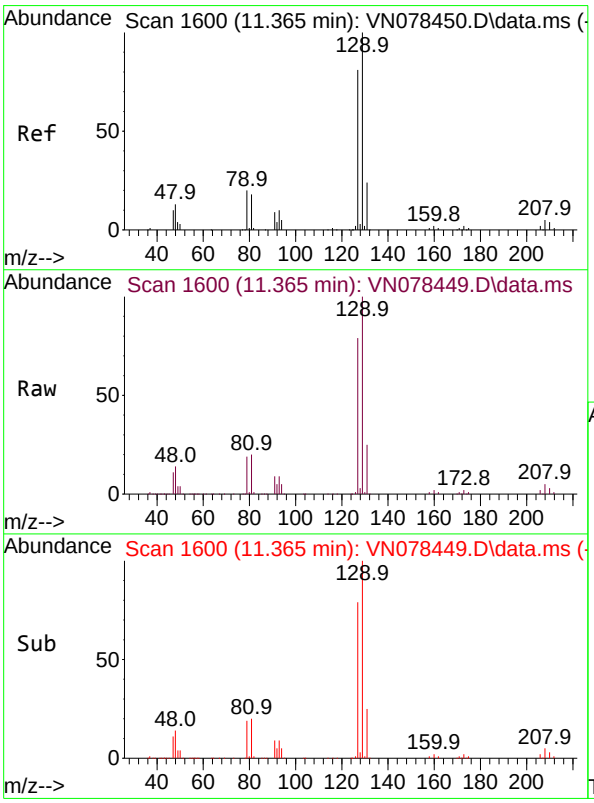
Ion	Ratio	Lower	Upper
43	100		
58	57.9	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

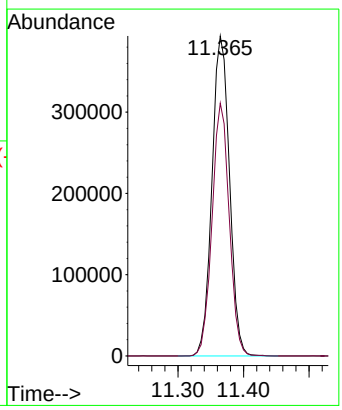


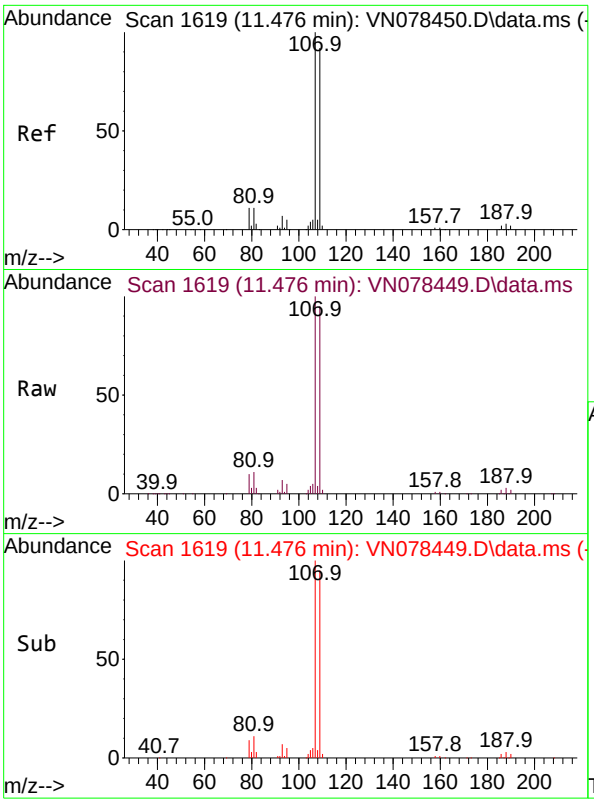


#60
Dibromochloromethane
Concen: 105.285 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:129 Resp: 729257

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	116.0





#61
1,2-Dibromoethane
Concen: 102.069 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

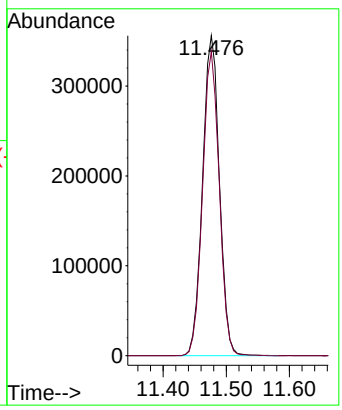
Tgt Ion:107 Resp: 65968

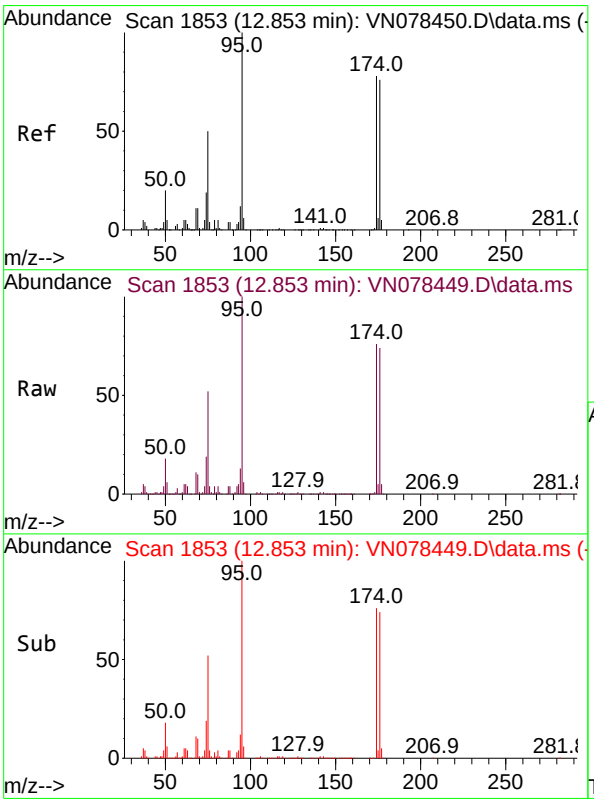
Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.6	114.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

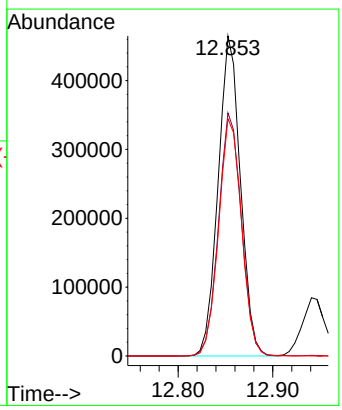


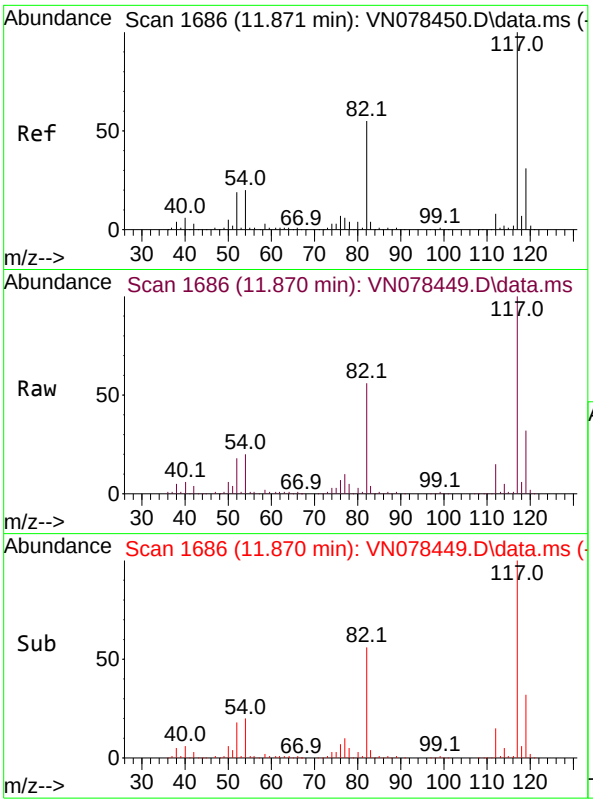


#62
4-Bromofluorobenzene
Concen: 108.927 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 95 Resp: 761303

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	143.8
176	76.2	0.0	135.8

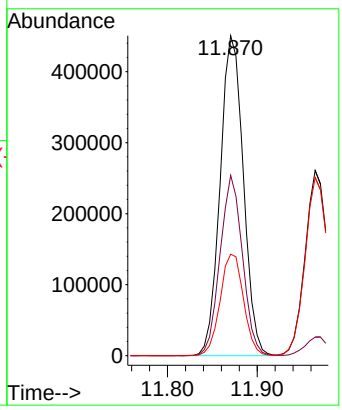




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:117 Resp: 80936

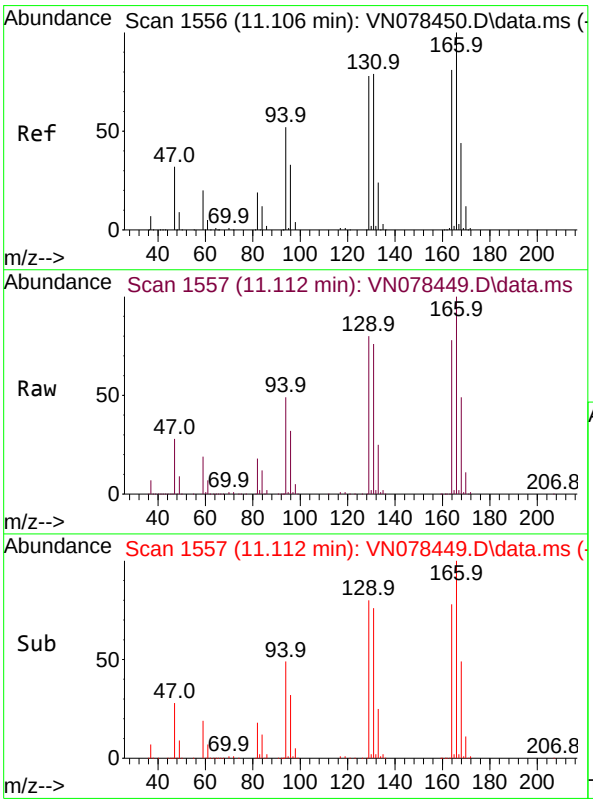
Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.0	66.0
119	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

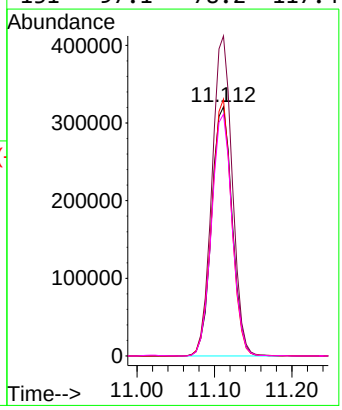
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

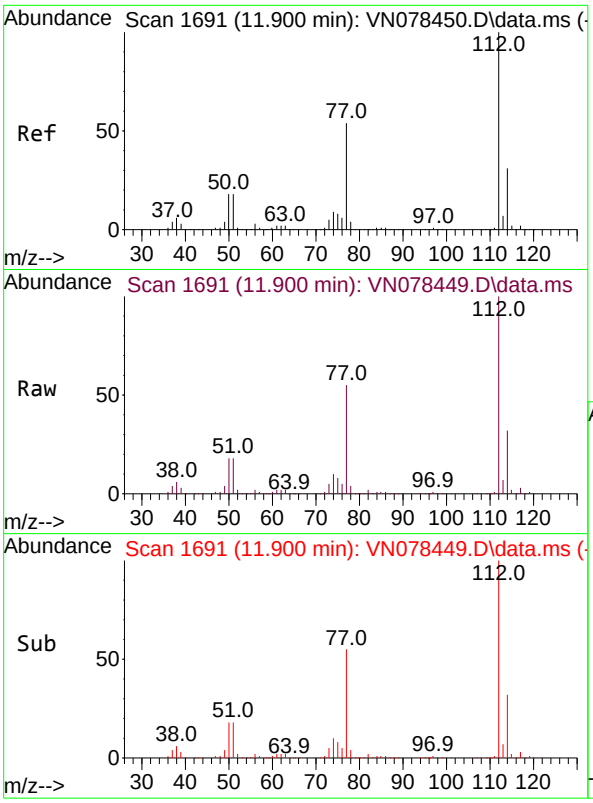


#64
Tetrachloroethene
Concen: 97.376 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:164 Resp: 592538

Ion	Ratio	Lower	Upper
164	100		
166	128.5	101.4	152.0
129	103.1	82.4	123.6
131	97.1	78.2	117.4





#65
Chlorobenzene
Concen: 97.894 ug/l
RT: 11.900 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

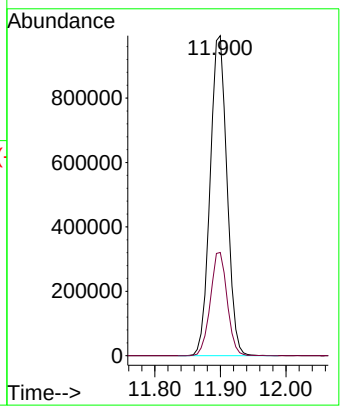
Tgt Ion:112 Resp: 177103

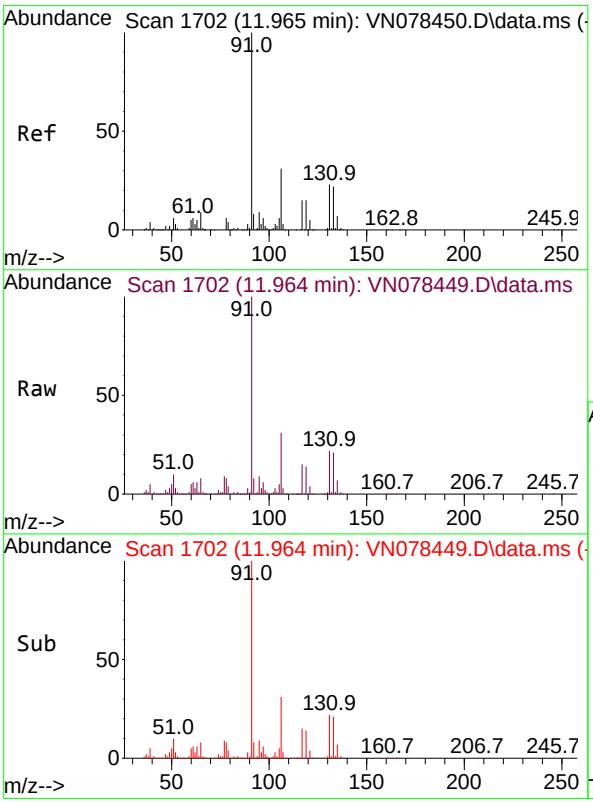
Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.0	37.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

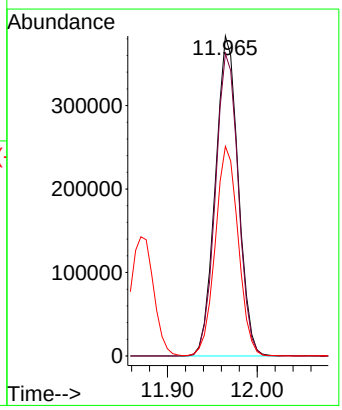


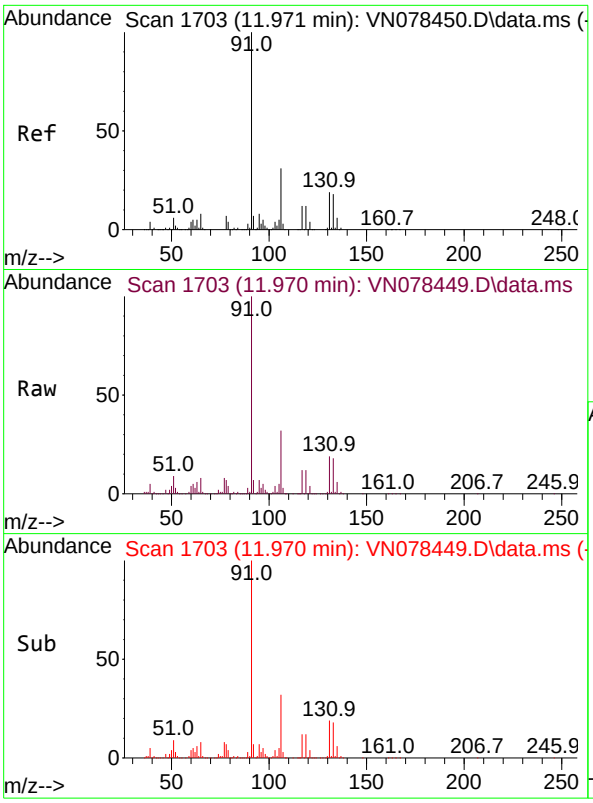


#66
1,1,1,2-Tetrachloroethane
Concen: 97.511 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:131 Resp: 678645

Ion	Ratio	Lower	Upper
131	100		
133	94.6	46.4	139.1
119	65.8	34.1	102.2

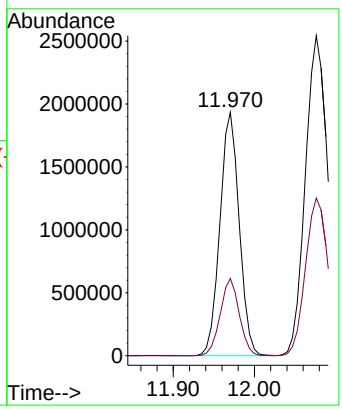




#67
Ethyl Benzene
Concen: 104.509 ug/l
RT: 11.970 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 91 Resp: 319591

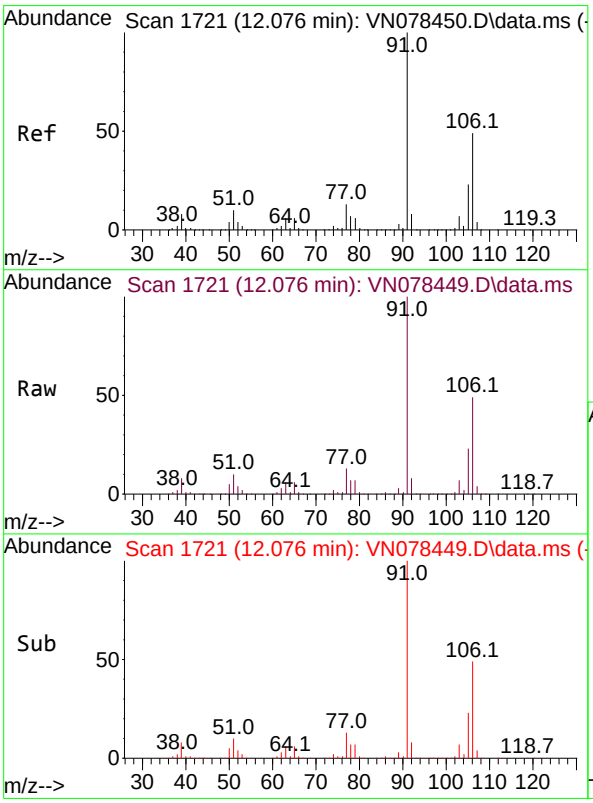
Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

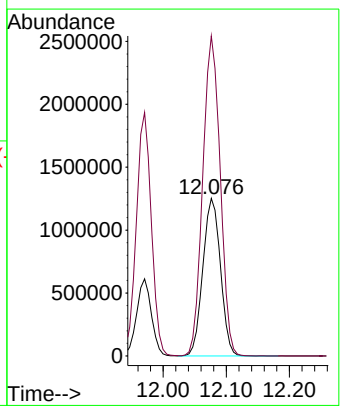
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

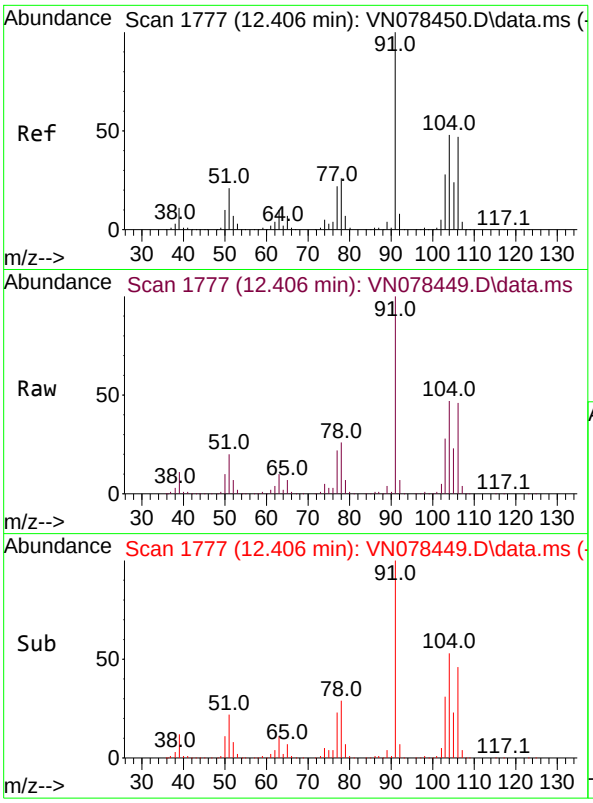


#68
m/p-Xylenes
Concen: 214.028 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:106 Resp: 2419893

Ion	Ratio	Lower	Upper
106	100		
91	201.5	159.6	239.4





#69
o-Xylene
Concen: 104.378 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

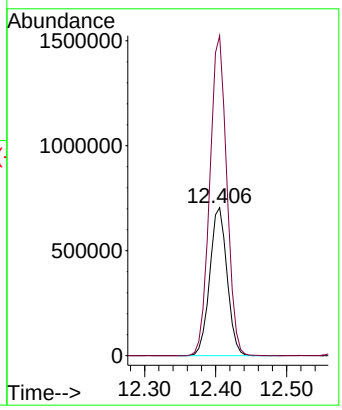
Tgt Ion:106 Resp: 119200

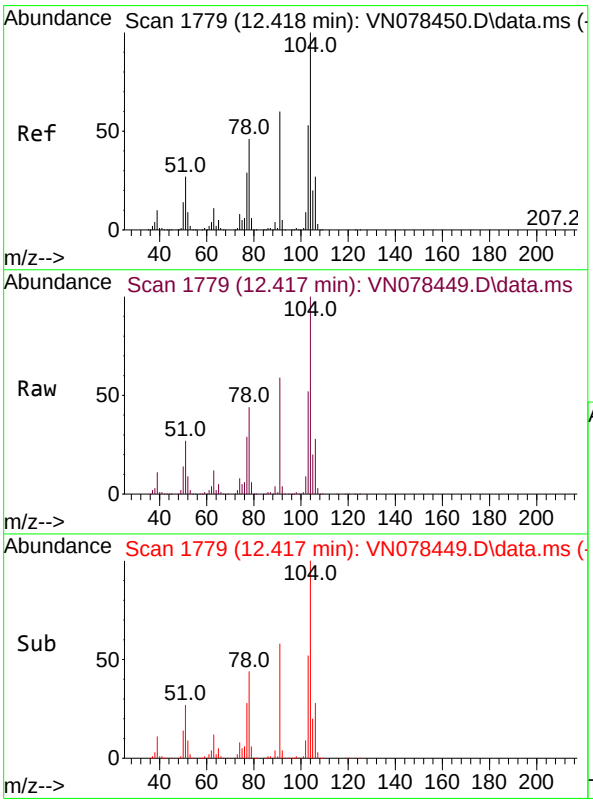
Ion	Ratio	Lower	Upper
106	100		
91	212.5	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

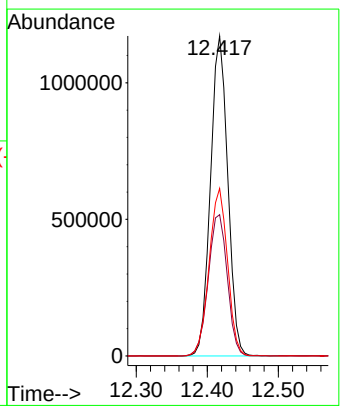


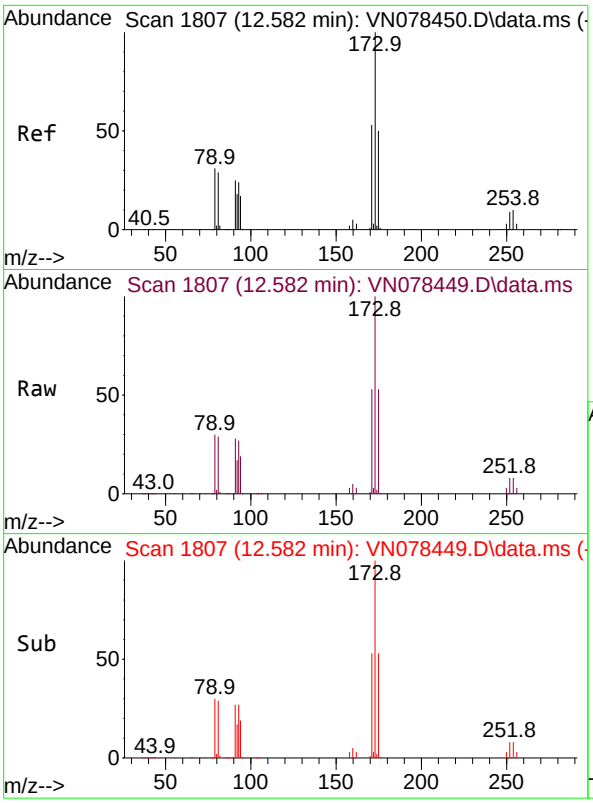


#70
Styrene
Concen: 110.693 ug/l
RT: 12.417 min Scan# 1779
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:104 Resp: 1977678

Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.5	59.3
103	55.8	43.2	64.8

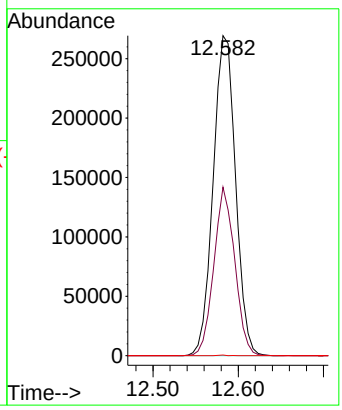




#71
Bromoform
Concen: 104.284 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:173 Resp: 49154

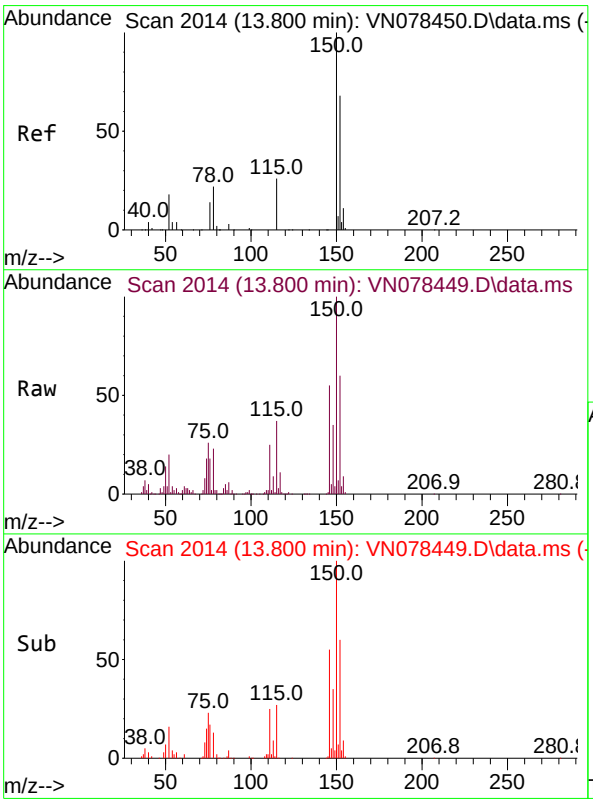
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.3	73.0
254	0.1	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

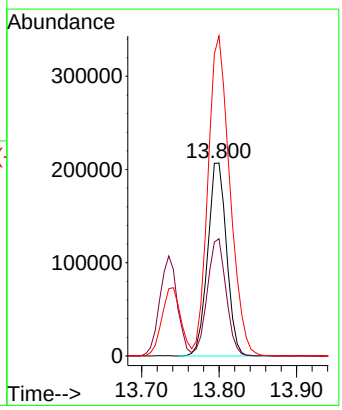
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

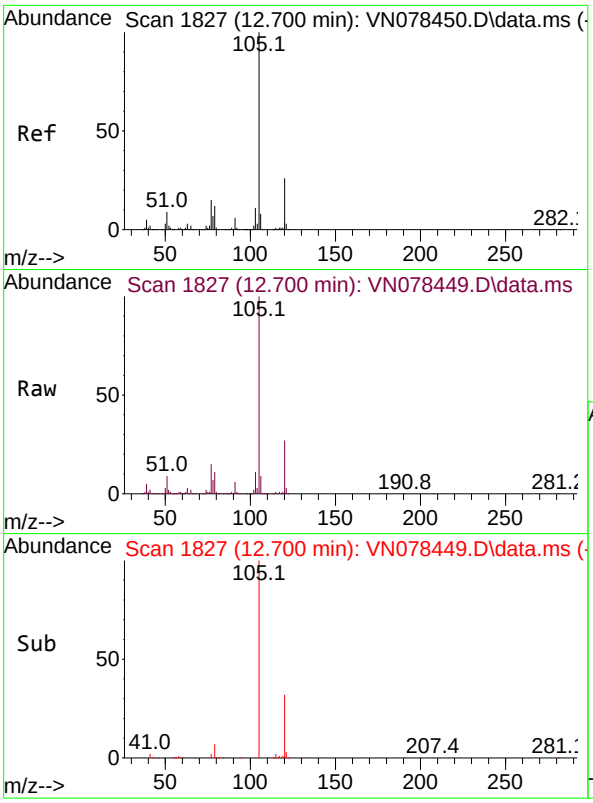


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:152 Resp: 350434

Ion	Ratio	Lower	Upper
152	100		
115	60.4	32.3	96.8
150	192.0	0.0	355.8

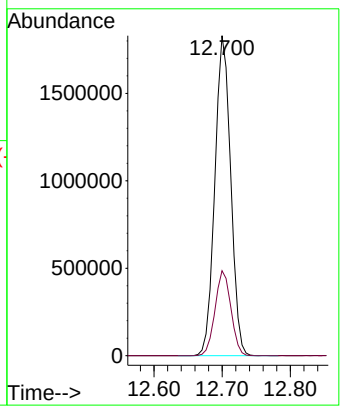




#73
Isopropylbenzene
Concen: 89.878 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:105 Resp: 295953

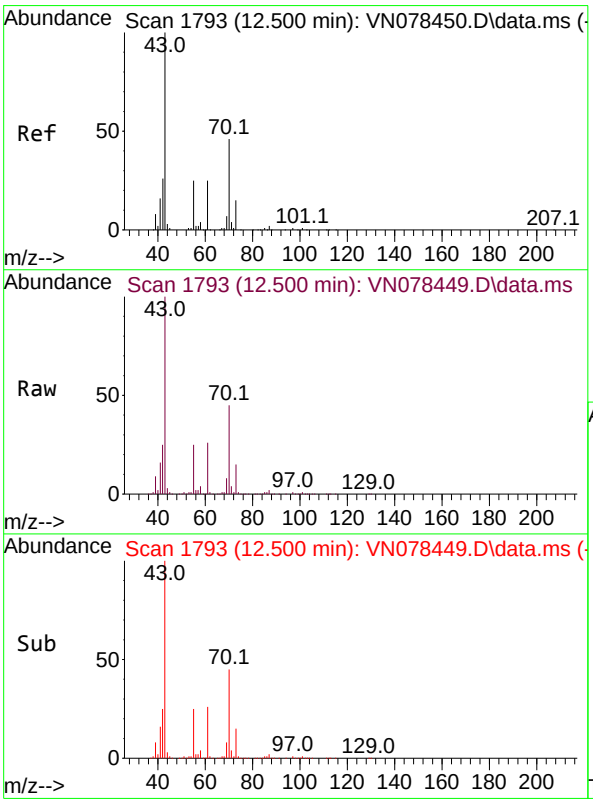
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

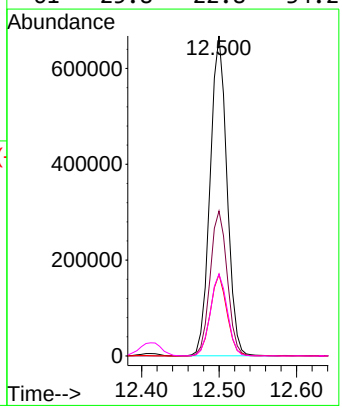
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

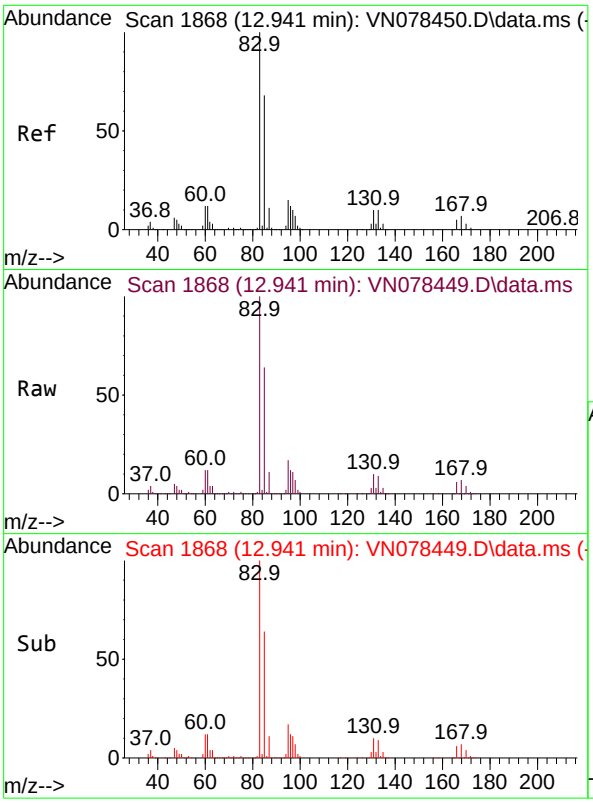


#74
N-amyl acetate
Concen: 88.874 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 43 Resp: 1008511

Ion	Ratio	Lower	Upper
43	100		
70	46.1	43.4	65.2
55	25.1	21.4	32.0
61	25.8	22.8	34.2





#75
1,1,2,2-Tetrachloroethane
Concen: 97.850 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

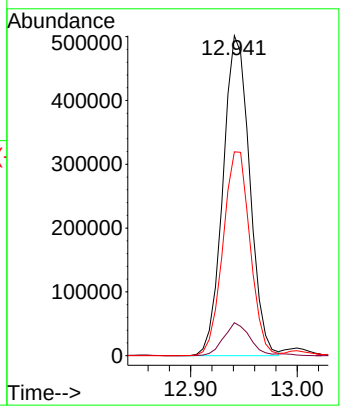
Tgt Ion: 83 Resp: 87266

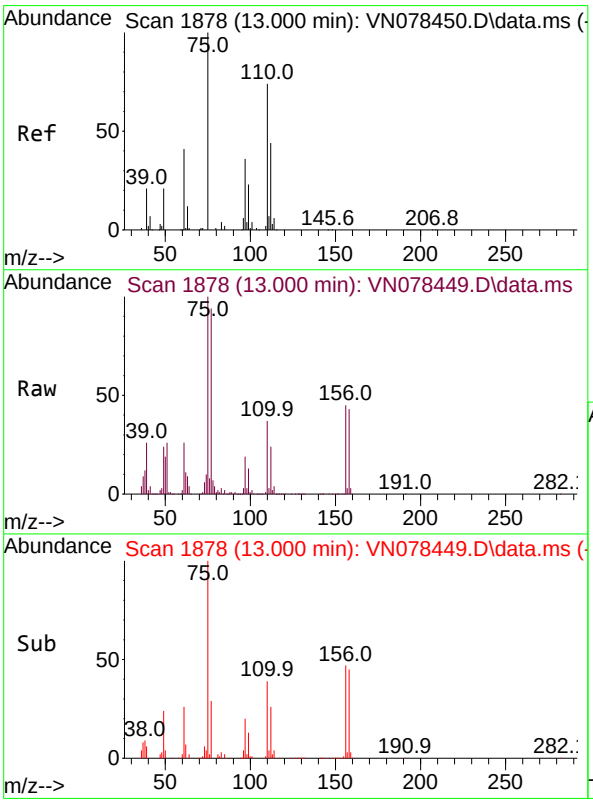
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	15.0
85	64.8	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

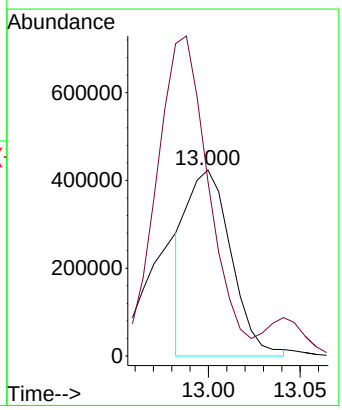


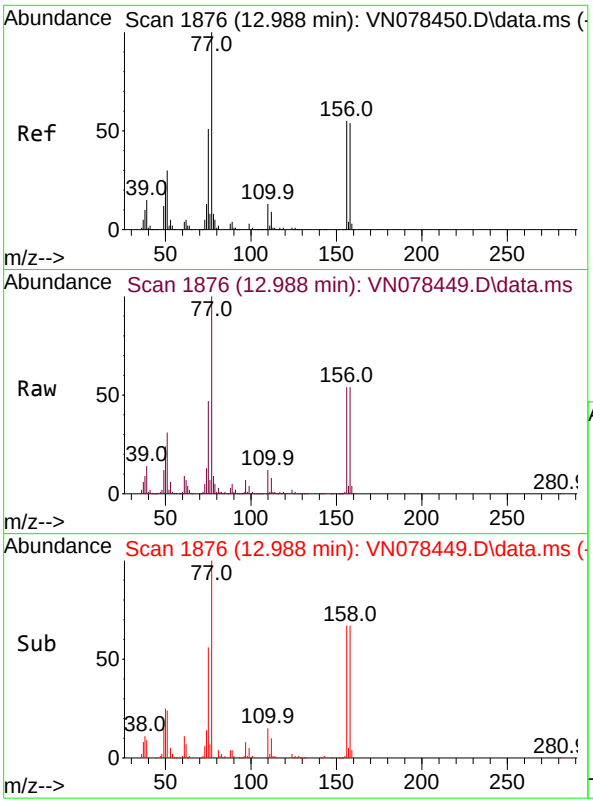


#76
1,2,3-Trichloropropane
Concen: 84.931 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 718586

Ion	Ratio	Lower	Upper
75	100		
77	201.5	84.5	253.5

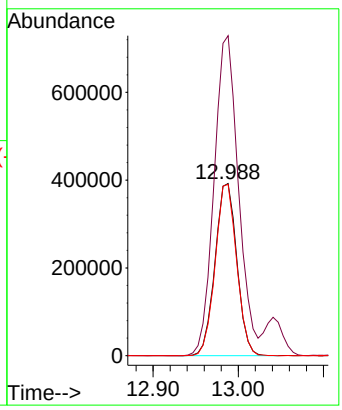




#77
Bromobenzene
Concen: 99.206 ug/l
RT: 12.988 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:156 Resp: 69950

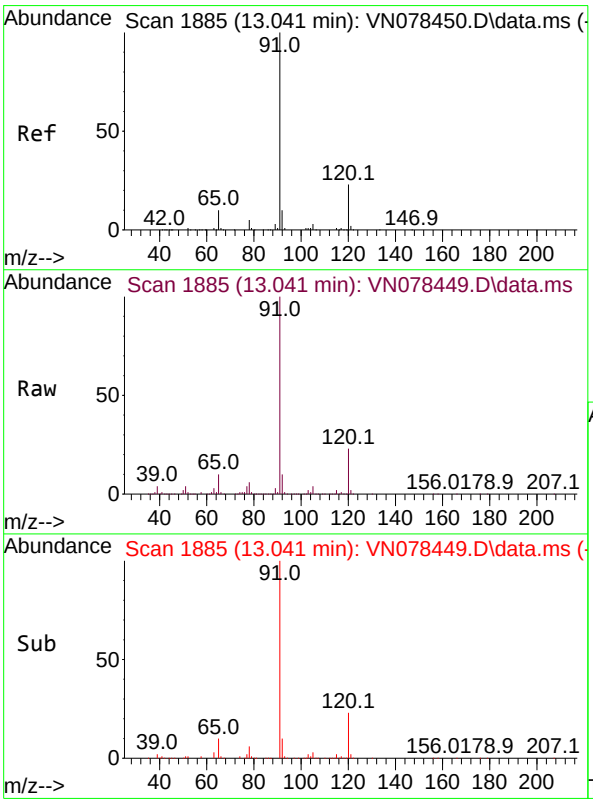
Ion	Ratio	Lower	Upper
156	100		
77	207.0	107.7	323.3
158	97.8	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

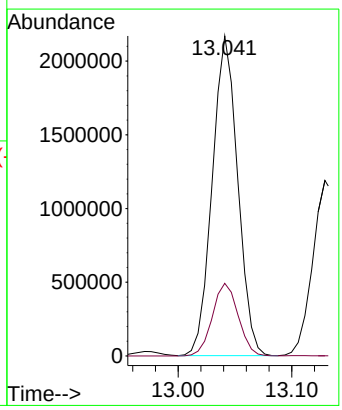
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

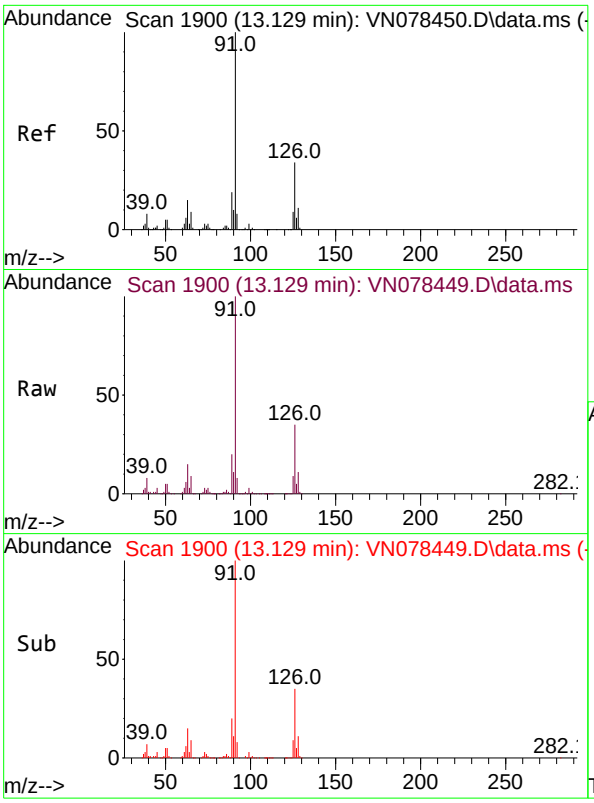


#78
n-propylbenzene
Concen: 95.884 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 91 Resp: 3376548

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4

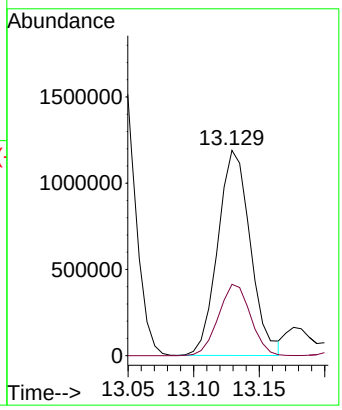




#79
2-Chlorotoluene
Concen: 89.241 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 91 Resp: 205846

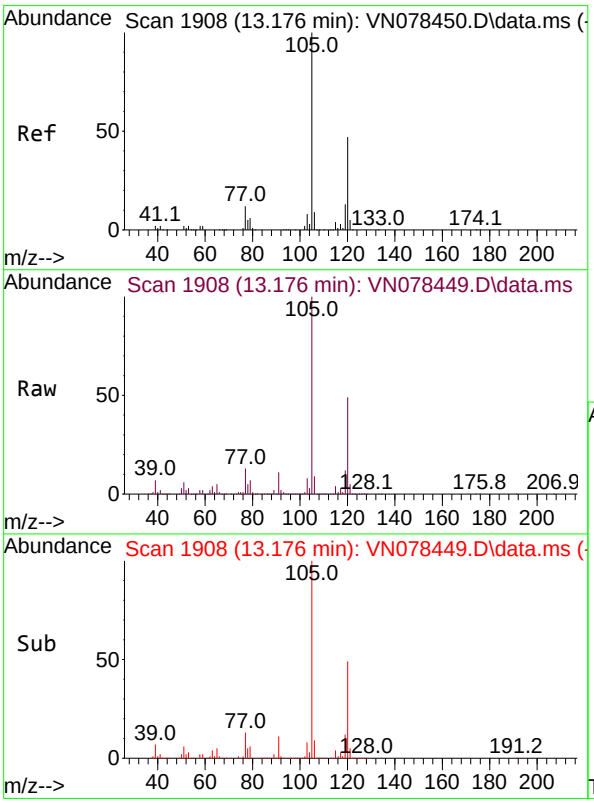
Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

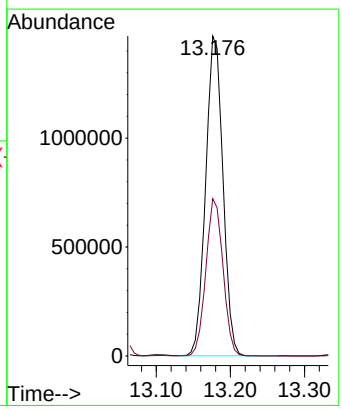
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

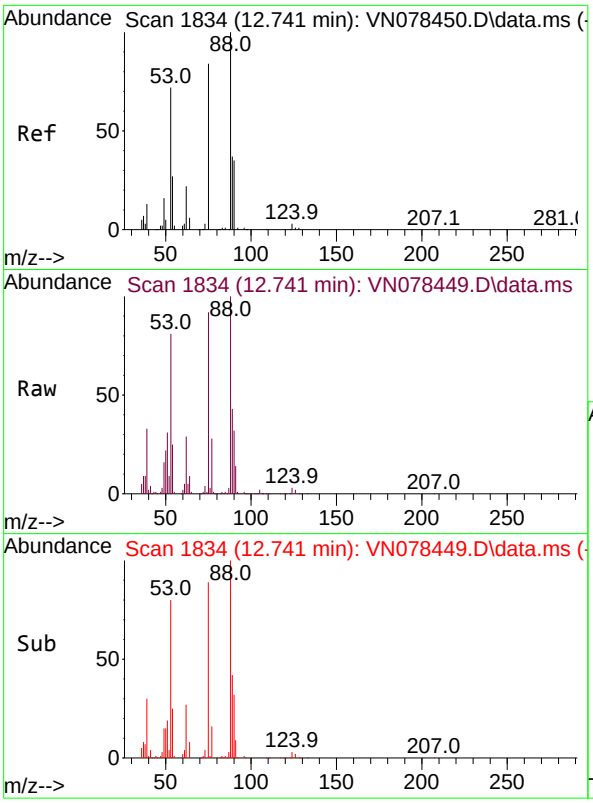


#80
1,3,5-Trimethylbenzene
Concen: 91.227 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:105 Resp: 2373479

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.1	72.3

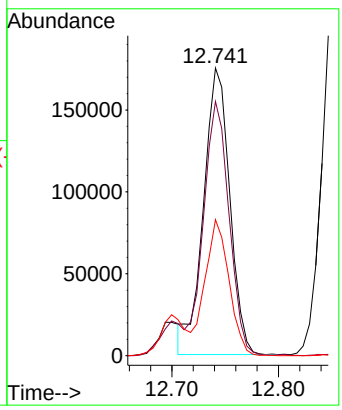




#81
trans-1,4-Dichloro-2-butene
Concen: 93.095 ug/l
RT: 12.741 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 30007

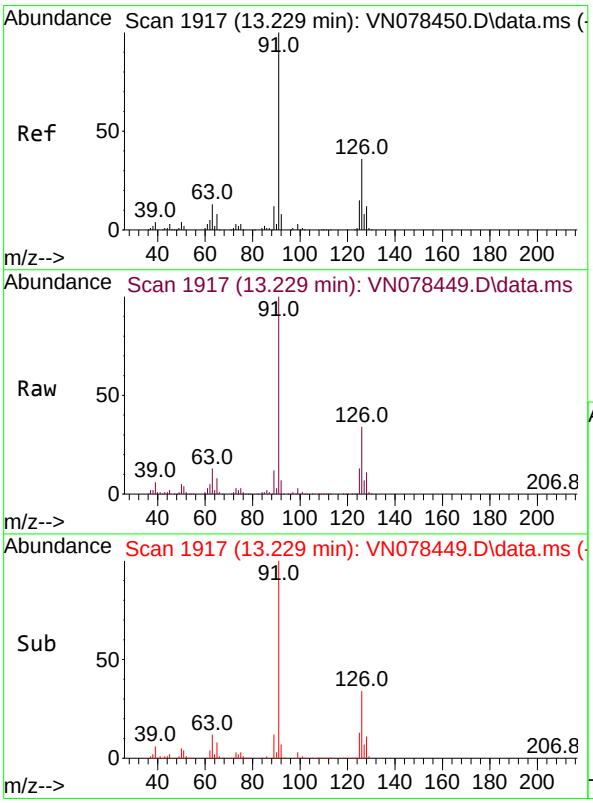
Ion	Ratio	Lower	Upper
75	100		
53	86.0	67.4	101.2
89	43.3	38.8	58.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

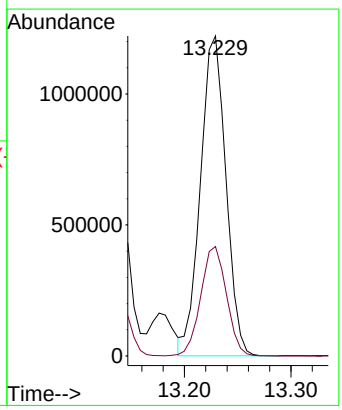
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

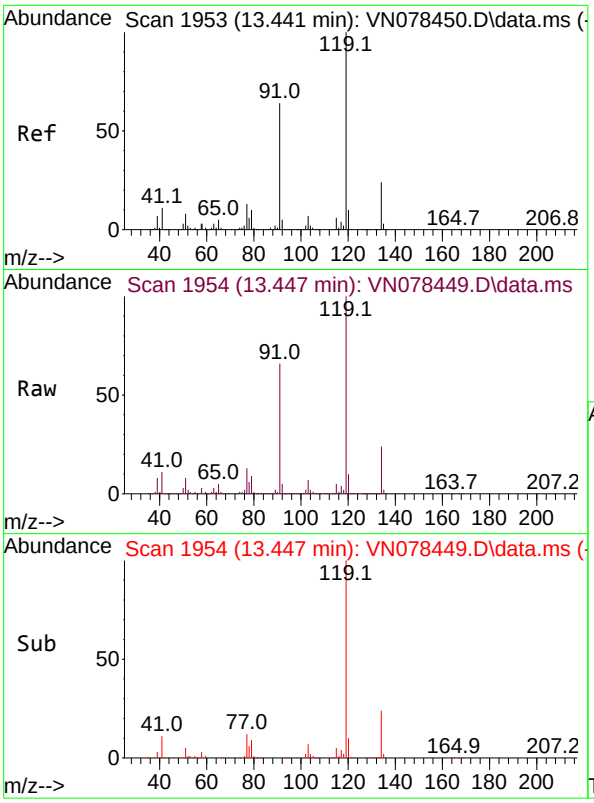


#82
4-Chlorotoluene
Concen: 94.257 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 91 Resp: 2028212

Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.7	50.0

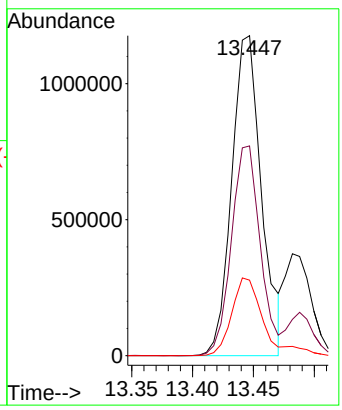




#83
tert-Butylbenzene
Concen: 90.603 ug/l
RT: 13.447 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:119 Resp: 200133

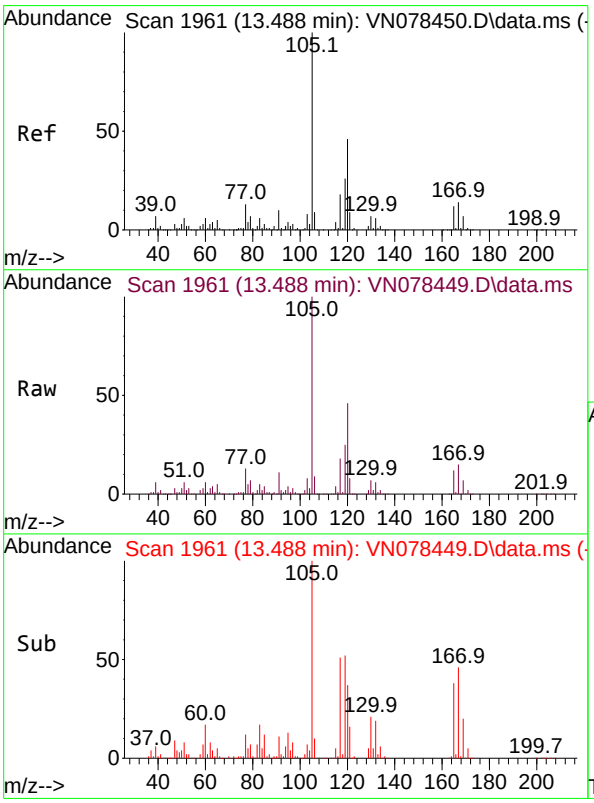
Ion	Ratio	Lower	Upper
119	100		
91	63.6	33.9	101.7
134	26.0	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

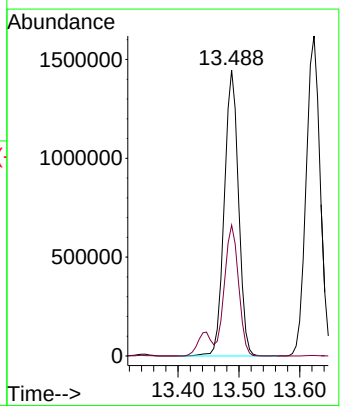
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

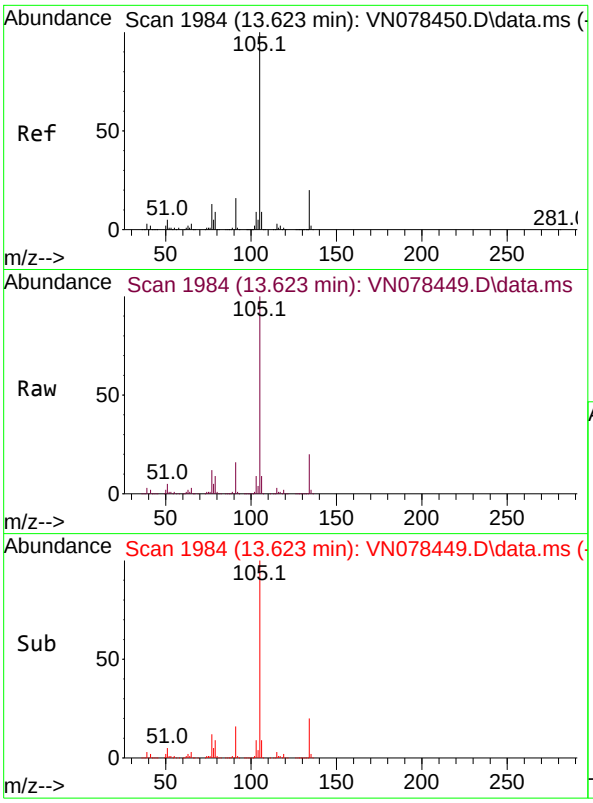


#84
1,2,4-Trimethylbenzene
Concen: 92.987 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:105 Resp: 2349919

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.0	66.0

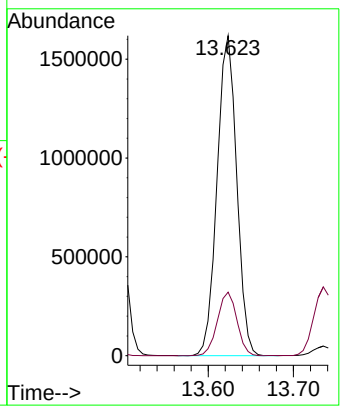




#85
sec-Butylbenzene
Concen: 92.882 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:105 Resp: 259330

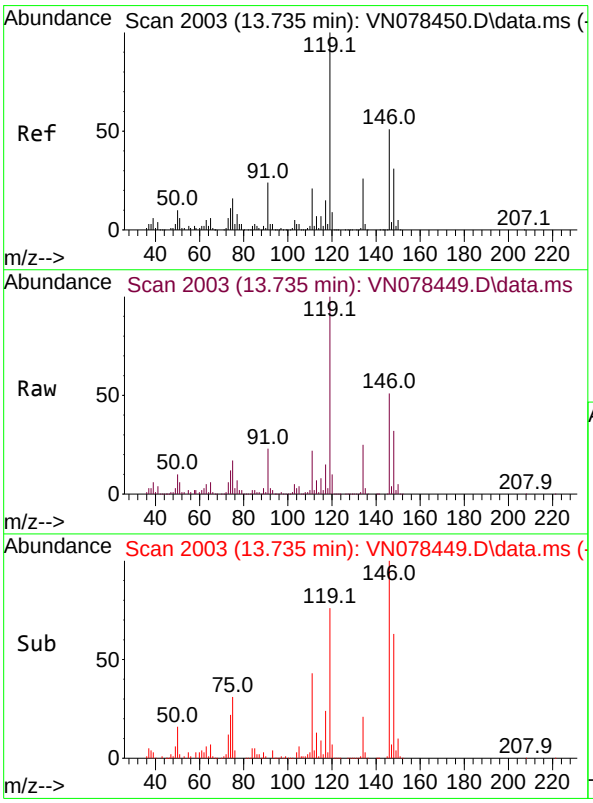
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

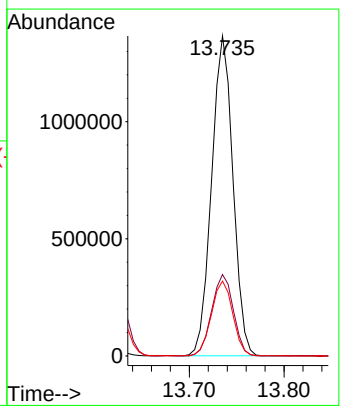
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

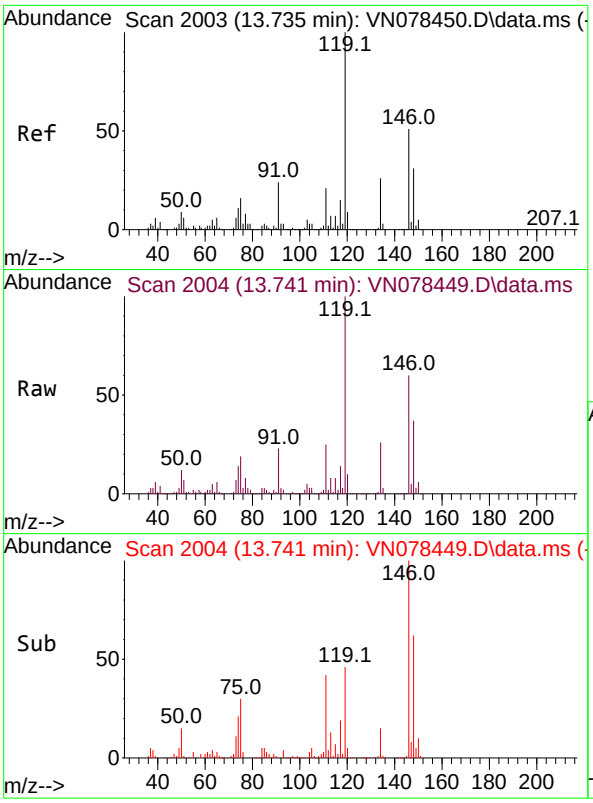


#86
p-Isopropyltoluene
Concen: 95.378 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:119 Resp: 2138276

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	23.4	12.4	37.2

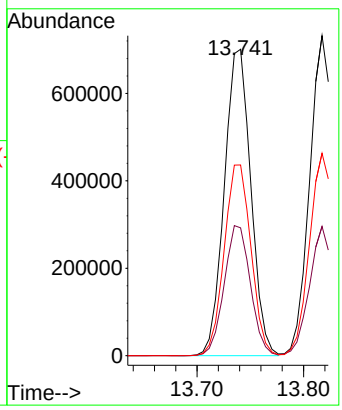




#87
1,3-Dichlorobenzene
Concen: 95.843 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:146 Resp: 121155

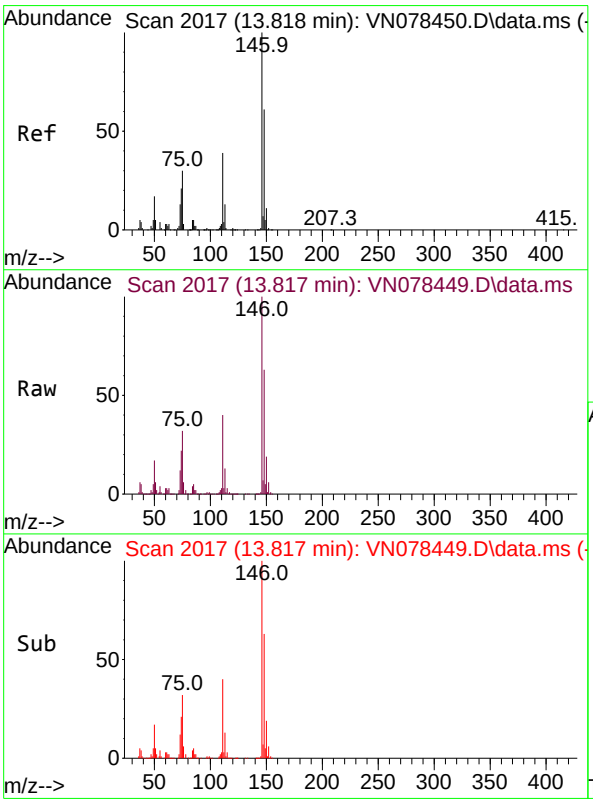
Ion	Ratio	Lower	Upper
146	100		
111	42.0	22.1	66.3
148	62.9	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

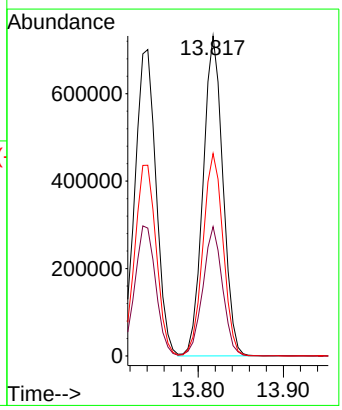
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

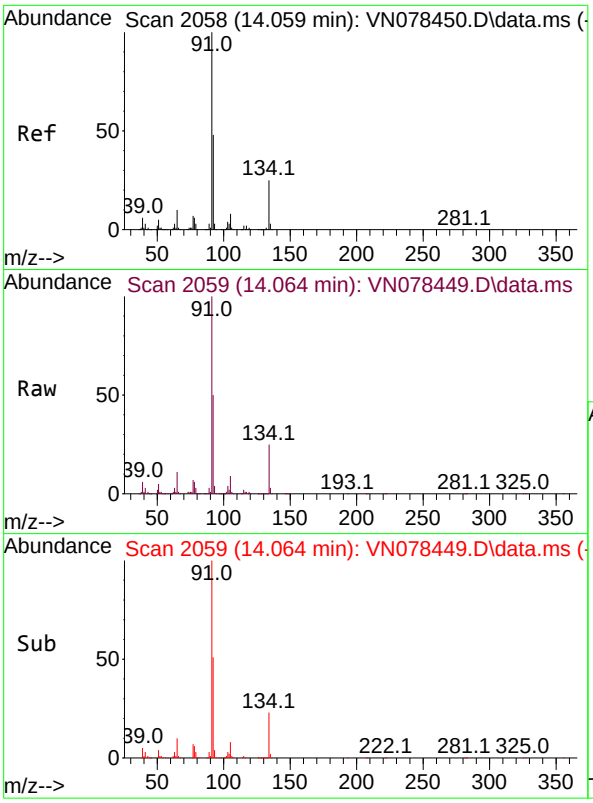


#88
1,4-Dichlorobenzene
Concen: 92.934 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:146 Resp: 1183297

Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.6	61.8
148	64.2	31.6	94.8

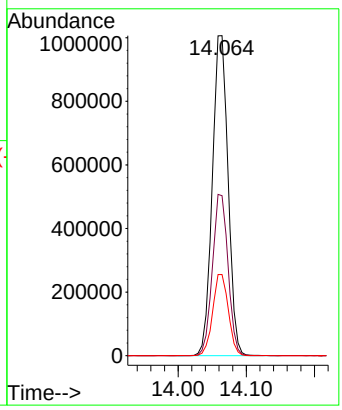




#89
n-Butylbenzene
Concen: 100.948 ug/l
RT: 14.064 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 91 Resp: 161931

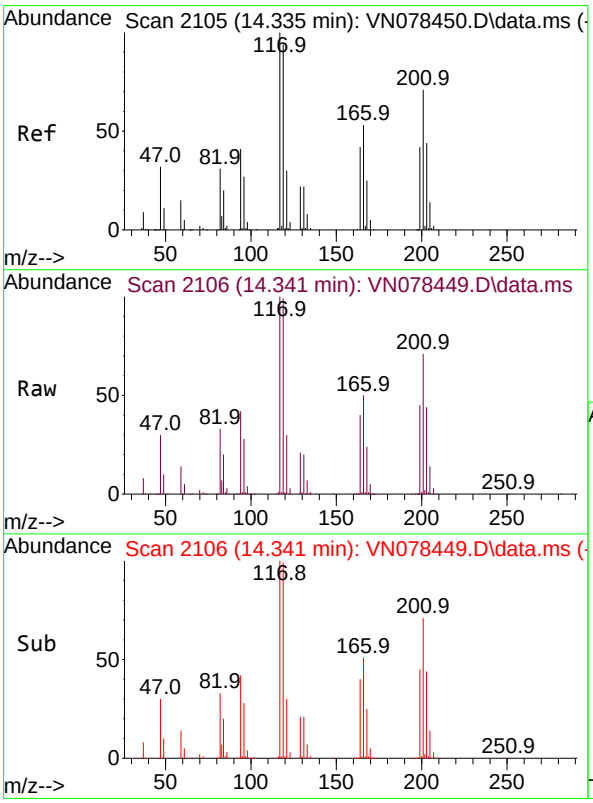
Ion	Ratio	Lower	Upper
91	100		
92	50.1	26.4	79.0
134	25.3	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

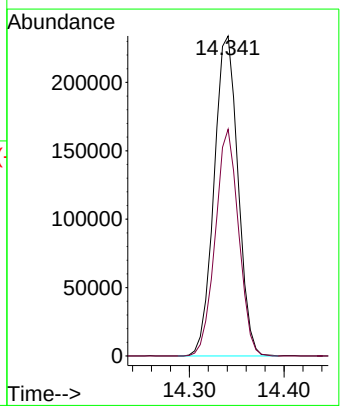
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

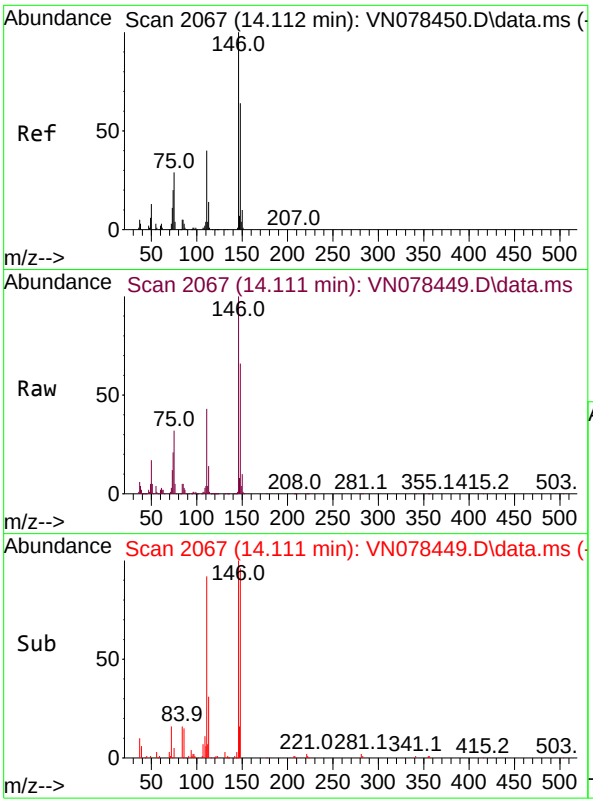


#90
Hexachloroethane
Concen: 100.408 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:117 Resp: 410352

Ion	Ratio	Lower	Upper
117	100		
201	69.0	29.3	88.0

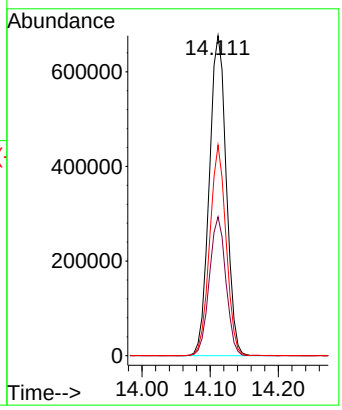




#91
1,2-Dichlorobenzene
Concen: 93.207 ug/l
RT: 14.111 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:146 Resp: 117254

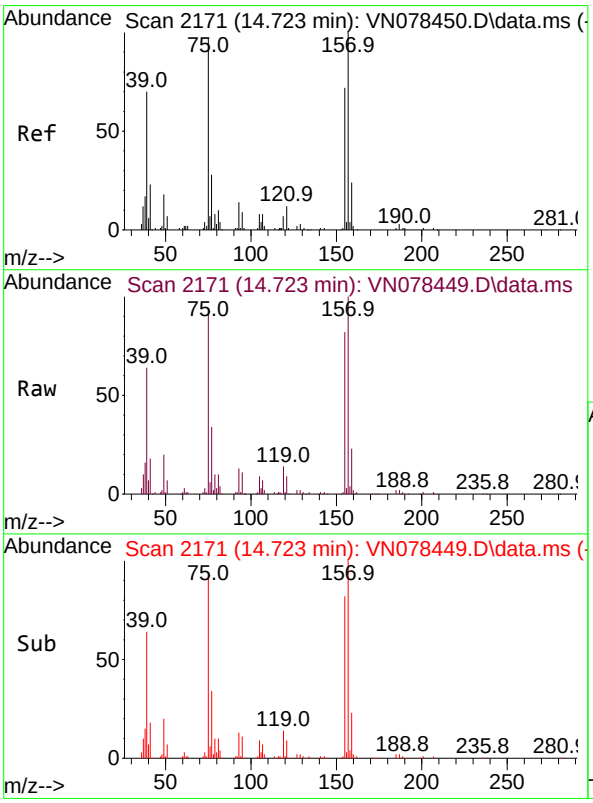
Ion	Ratio	Lower	Upper
146	100		
111	42.3	22.0	66.0
148	63.4	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

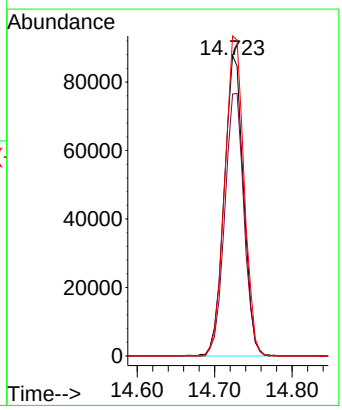
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

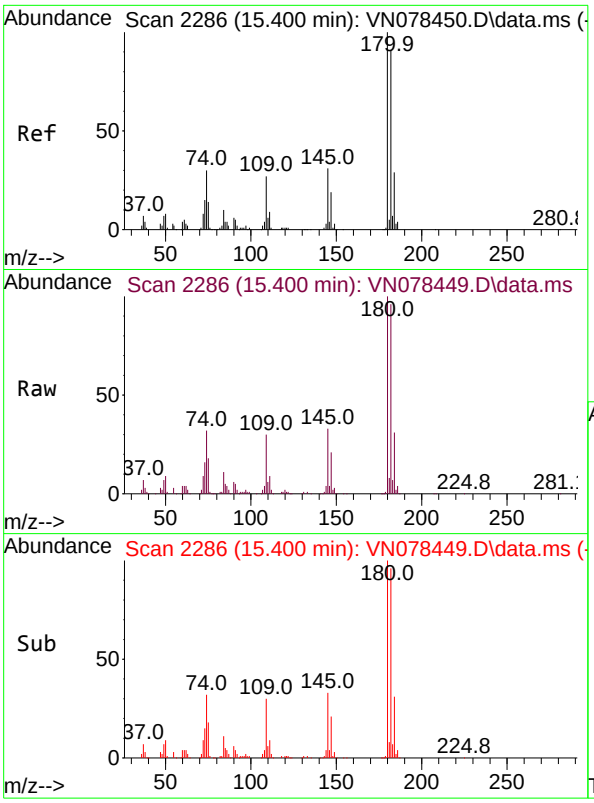


#92
1,2-Dibromo-3-Chloropropane
Concen: 98.955 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion: 75 Resp: 153027

Ion	Ratio	Lower	Upper
75	100		
155	86.9	39.1	117.2
157	106.2	50.3	150.9

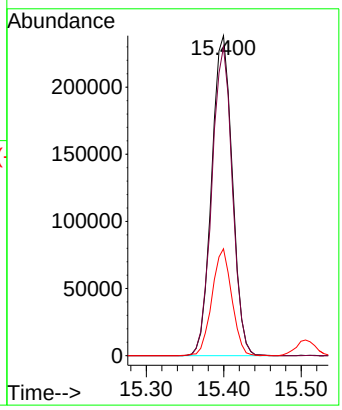




#93
1,2,4-Trichlorobenzene
Concen: 110.019 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:180 Resp: 44172

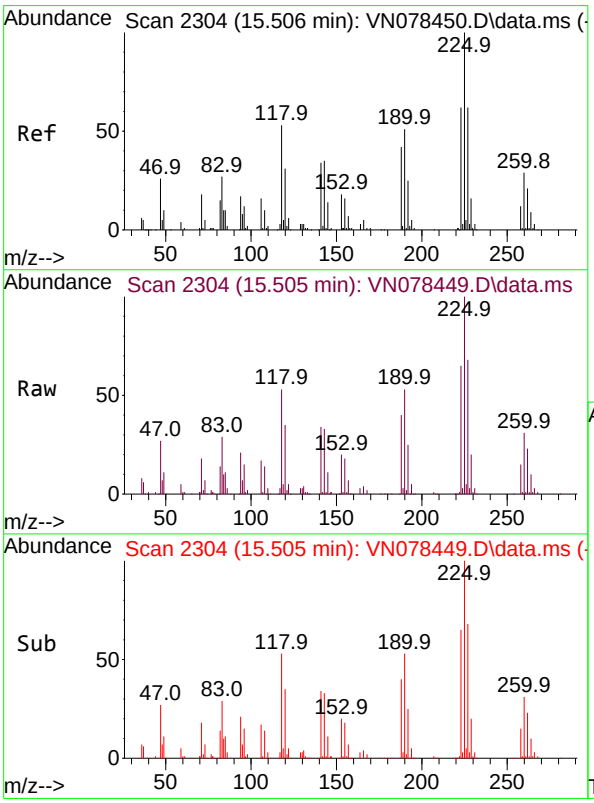
Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.1	138.2
145	32.1	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

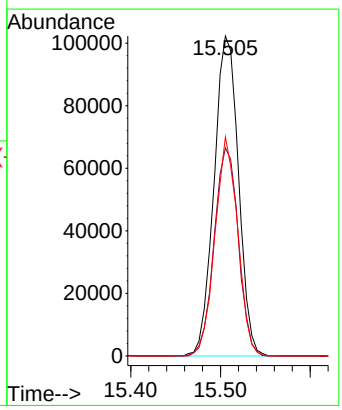
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

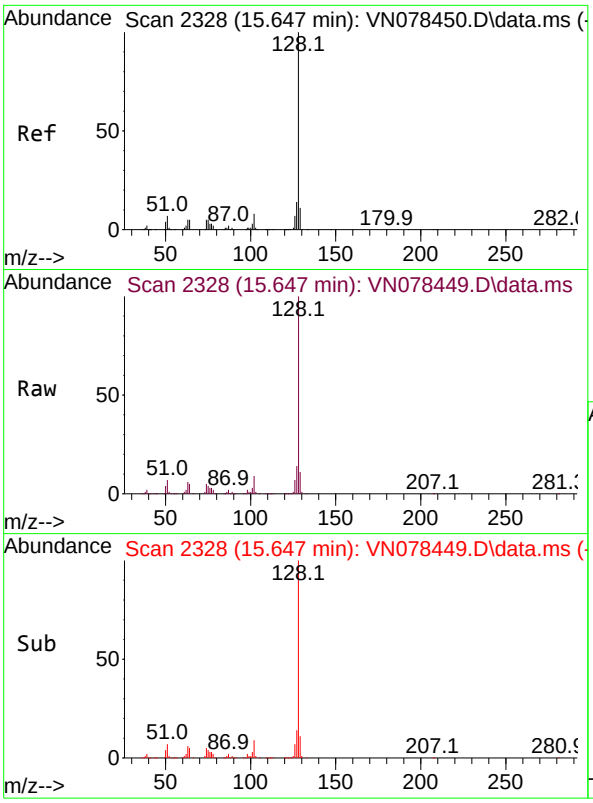


#94
Hexachlorobutadiene
Concen: 97.023 ug/l
RT: 15.505 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:225 Resp: 193432

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.3	93.8
227	63.6	31.9	95.9

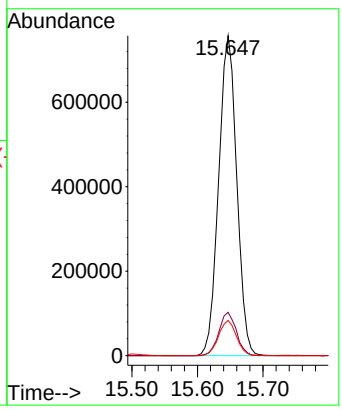




#95
Naphthalene
Concen: 105.547 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:128 Resp: 144872

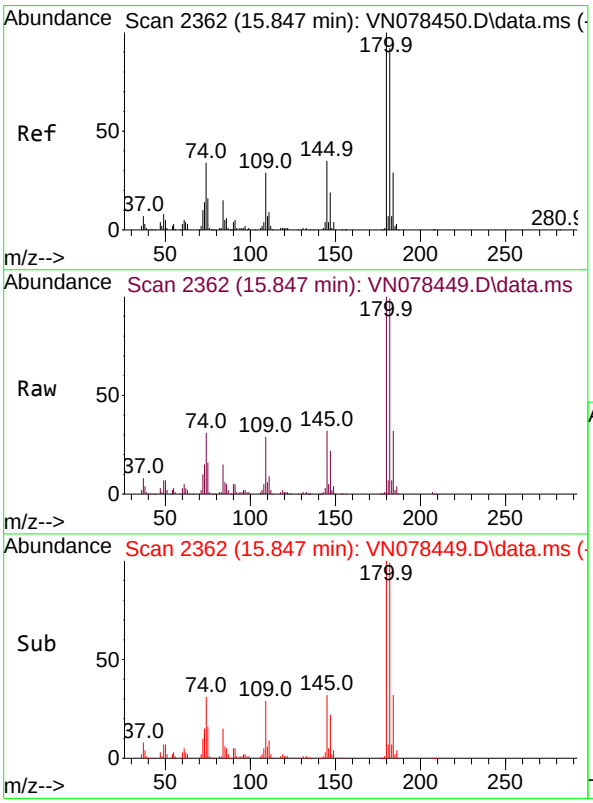
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.0	15.0
129	10.9	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

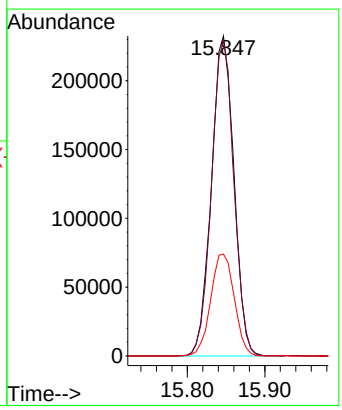
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 101.382 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078449.D
Acq: 10 Jul 2023 12:21

Tgt Ion:180 Resp: 468039

Ion	Ratio	Lower	Upper
180	100		
182	98.2	46.2	138.6
145	33.5	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078450.D
Acq On : 10 Jul 2023 12:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 15:53:48 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	511467	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	903394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	791641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	329469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	338670	49.392	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.780%			
35) Dibromofluoromethane	8.177	113	298691	48.706	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.420%			
50) Toluene-d8	10.571	98	1130269	48.788	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.580%			
62) 4-Bromofluorobenzene	12.853	95	358906	50.296	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	299933	47.830	ug/l	97
3) Chloromethane	2.371	50	313827	46.044	ug/l	100
4) Vinyl Chloride	2.518	62	415635	47.140	ug/l	99
5) Bromomethane	2.954	94	291038	52.428	ug/l	99
6) Chloroethane	3.118	64	291365	54.814	ug/l	99
7) Trichlorofluoromethane	3.501	101	502650	47.691	ug/l	96
8) Diethyl Ether	3.971	74	176460	50.251	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.383	101	274815	49.256	ug/l	96
10) Methyl Iodide	4.600	142	384209	50.113	ug/l	96
11) Tert butyl alcohol	5.536	59	261821	247.624	ug/l	99
12) 1,1-Dichloroethene	4.348	96	265593	49.212	ug/l	92
13) Acrolein	4.189	56	263797	253.584	ug/l	98
14) Allyl chloride	5.036	41	358576	48.623	ug/l	95
15) Acrylonitrile	5.730	53	672900	251.883	ug/l	99
16) Acetone	4.442	43	506777	237.268	ug/l	97
17) Carbon Disulfide	4.718	76	736661	47.204	ug/l	97
18) Methyl Acetate	5.036	43	442186	48.906	ug/l	89
19) Methyl tert-butyl Ether	5.806	73	904029	50.840	ug/l	97
20) Methylene Chloride	5.283	84	314383	50.182	ug/l	92
21) trans-1,2-Dichloroethene	5.795	96	302992	49.821	ug/l	91
22) Diisopropyl ether	6.683	45	845665	51.213	ug/l #	94
23) Vinyl Acetate	6.612	43	2765637	263.451	ug/l #	89
24) 1,1-Dichloroethane	6.577	63	550375	49.464	ug/l	98
25) 2-Butanone	7.489	43	844994	251.324	ug/l	88
26) 2,2-Dichloropropane	7.500	77	452793	49.755	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	351806	50.005	ug/l	94
28) Bromochloromethane	7.818	49	262465	50.081	ug/l	92
29) Tetrahydrofuran	7.847	42	565312	256.244	ug/l #	84
30) Chloroform	7.977	83	585983	50.585	ug/l	93
31) Cyclohexane	8.265	56	424317	45.790	ug/l	91
32) 1,1,1-Trichloroethane	8.177	97	528160	50.853	ug/l	97
36) 1,1-Dichloropropene	8.377	75	430695	48.640	ug/l	97
37) Ethyl Acetate	7.571	43	369467	50.053	ug/l #	94
38) Carbon Tetrachloride	8.365	117	474963	49.353	ug/l	96
39) Methylcyclohexane	9.606	83	402713	49.825	ug/l	91
40) Benzene	8.612	78	1303523	49.690	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078450.D
Acq On : 10 Jul 2023 12:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 15:53:48 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	184972	49.156	ug/l		92
42) 1,2-Dichloroethane	8.677	62	428689	48.044	ug/l		98
43) Isopropyl Acetate	8.694	43	609663	50.167	ug/l		94
44) Trichloroethene	9.359	130	335140	47.401	ug/l		96
45) 1,2-Dichloropropane	9.630	63	323797	48.734	ug/l		99
46) Dibromomethane	9.718	93	234496	50.145	ug/l		93
47) Bromodichloromethane	9.894	83	467677	49.891	ug/l		97
48) Methyl methacrylate	9.688	41	289338	51.390	ug/l		88
49) 1,4-Dioxane	9.700	88	121954	993.233	ug/l		96
51) 4-Methyl-2-Pentanone	10.453	43	1852478	256.271	ug/l		94
52) Toluene	10.635	92	814804	50.115	ug/l		96
53) t-1,3-Dichloropropene	10.841	75	490353	51.060	ug/l		98
54) cis-1,3-Dichloropropene	10.318	75	533674	52.134	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	316794	49.454	ug/l		96
56) Ethyl methacrylate	10.882	69	476305	53.191	ug/l		93
57) 1,3-Dichloropropane	11.171	76	542990	49.853	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	835934	261.951	ug/l		94
59) 2-Hexanone	11.200	43	1344833	261.771	ug/l		92
60) Dibromochloromethane	11.365	129	361937	51.179	ug/l		99
61) 1,2-Dibromoethane	11.476	107	332161	50.336	ug/l		97
64) Tetrachloroethene	11.106	164	295482	49.646	ug/l		97
65) Chlorobenzene	11.900	112	866971	48.995	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.965	131	339102	49.815	ug/l		98
67) Ethyl Benzene	11.971	91	1539468	51.469	ug/l		98
68) m/p-Xylenes	12.076	106	1167599	105.581	ug/l		98
69) o-Xylene	12.406	106	568790	50.921	ug/l		97
70) Styrene	12.418	104	926334	53.009	ug/l		98
71) Bromoform	12.582	173	241874	52.464	ug/l	#	98
73) Isopropylbenzene	12.700	105	1429692	46.181	ug/l		99
74) N-amyl acetate	12.500	43	501898	47.043	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.941	83	451410	52.351	ug/l		99
76) 1,2,3-Trichloropropane	13.000	75	366977m	46.134	ug/l		
77) Bromobenzene	12.988	156	340936	50.662	ug/l		97
78) n-propylbenzene	13.041	91	1589295	48.003	ug/l		99
79) 2-Chlorotoluene	13.129	91	993931	45.832	ug/l		96
80) 1,3,5-Trimethylbenzene	13.176	105	1148553	46.955	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	141562	46.712	ug/l		87
82) 4-Chlorotoluene	13.229	91	951921	47.054	ug/l		98
83) tert-Butylbenzene	13.441	119	964839	46.459	ug/l		96
84) 1,2,4-Trimethylbenzene	13.488	105	1133229	47.696	ug/l		98
85) sec-Butylbenzene	13.623	105	1229885	46.853	ug/l		98
86) p-Isopropyltoluene	13.735	119	1014504	48.131	ug/l		98
87) 1,3-Dichlorobenzene	13.735	146	575254	48.403	ug/l		98
88) 1,4-Dichlorobenzene	13.818	146	567782	47.430	ug/l		98
89) n-Butylbenzene	14.059	91	764971	50.723	ug/l		97
90) Hexachloroethane	14.335	117	190986	49.287	ug/l		83
91) 1,2-Dichlorobenzene	14.112	146	568034	48.027	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	74837	50.514	ug/l		94
93) 1,2,4-Trichlorobenzene	15.400	180	200731	53.177	ug/l		98
94) Hexachlorobutadiene	15.506	225	106143	54.749	ug/l		98
95) Naphthalene	15.647	128	653821	50.666	ug/l		98
96) 1,2,3-Trichlorobenzene	15.847	180	217418	50.092	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078450.D
Acq On : 10 Jul 2023 12:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 15:53:48 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

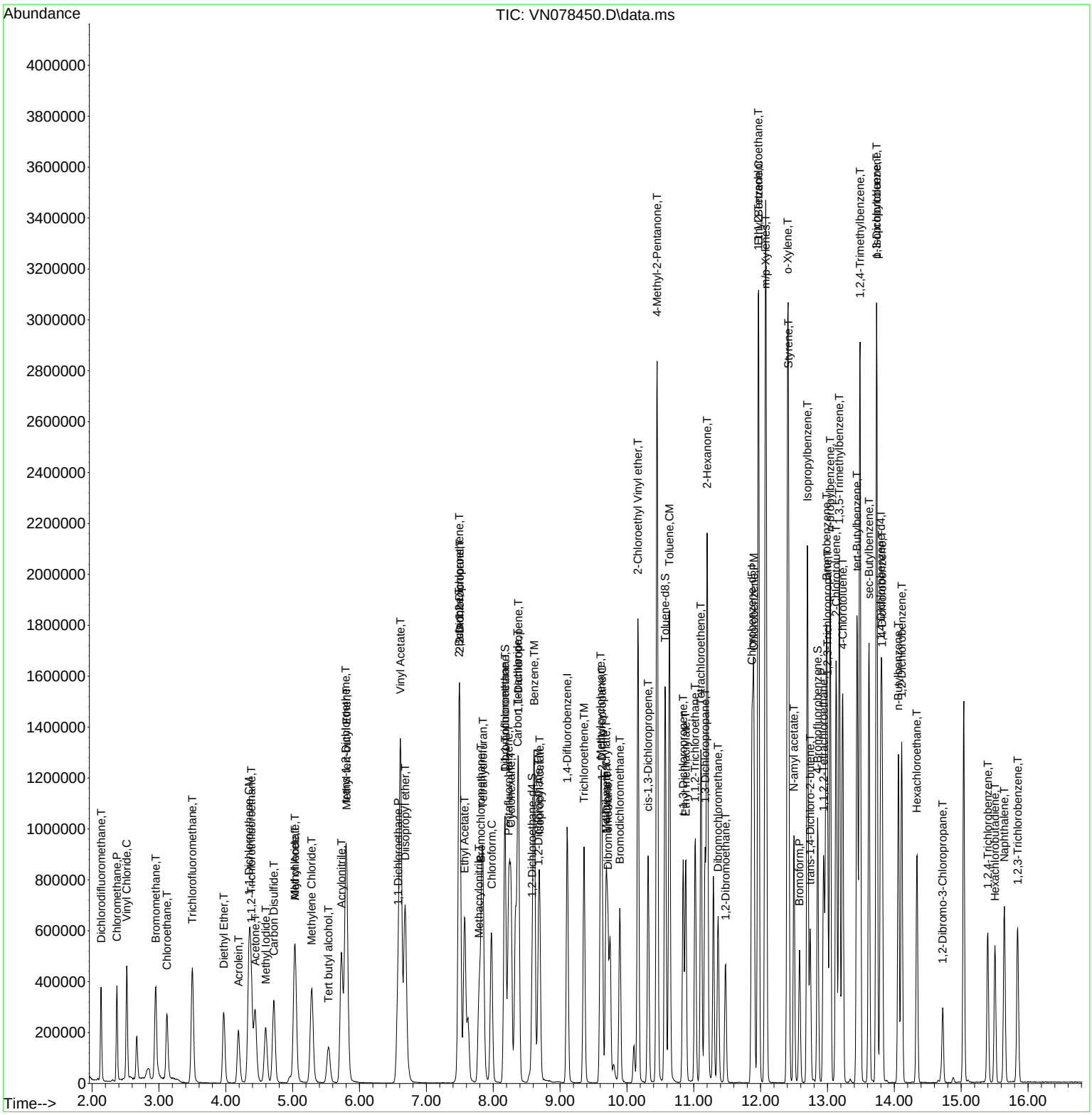
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Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

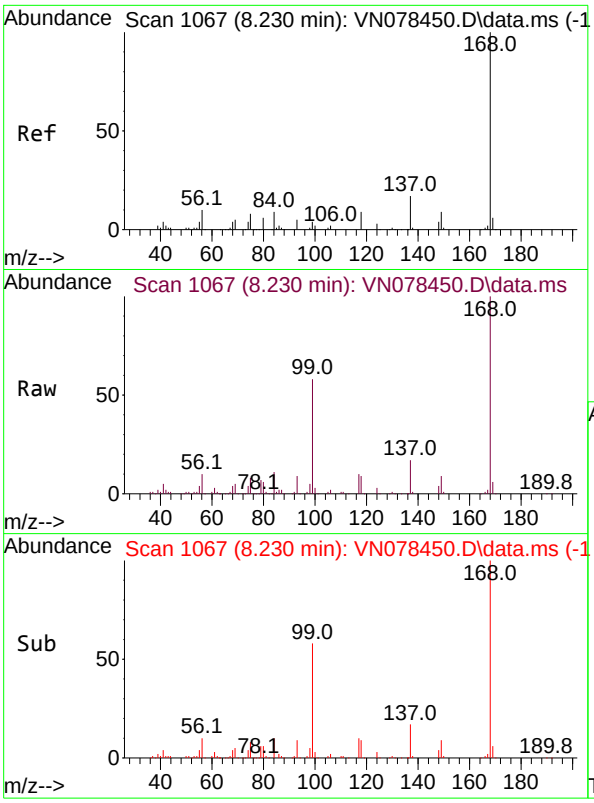
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
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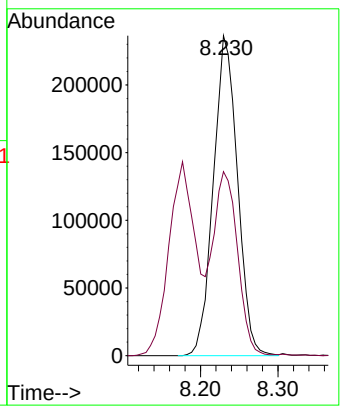




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:168 Resp: 51146

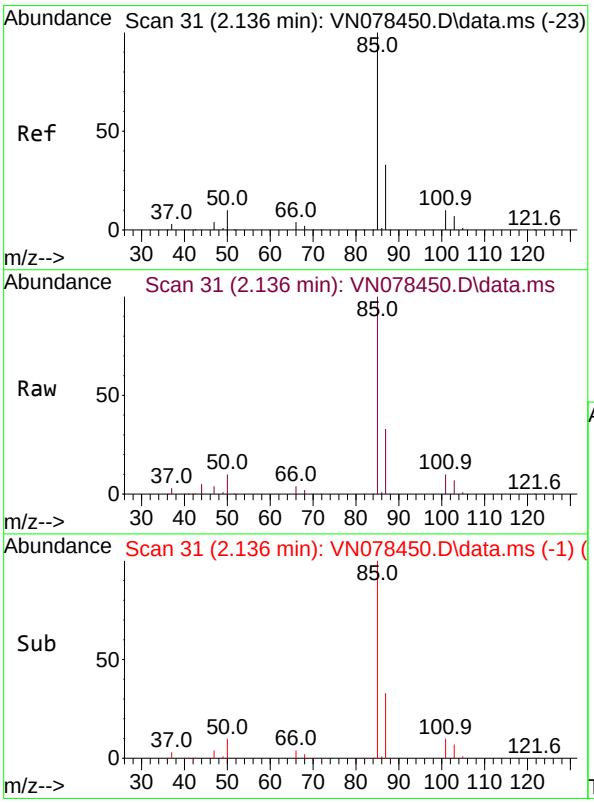
Ion	Ratio	Lower	Upper
168	100		
99	57.2	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

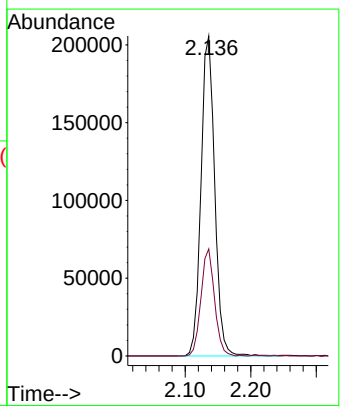
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

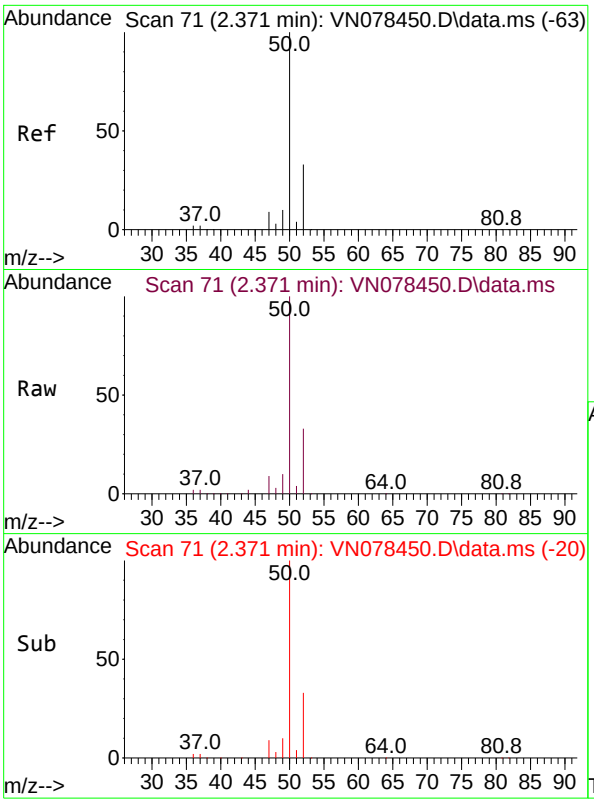


#2
Dichlorodifluoromethane
Concen: 47.830 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 85 Resp: 299933

Ion	Ratio	Lower	Upper
85	100		
87	33.4	15.8	47.4

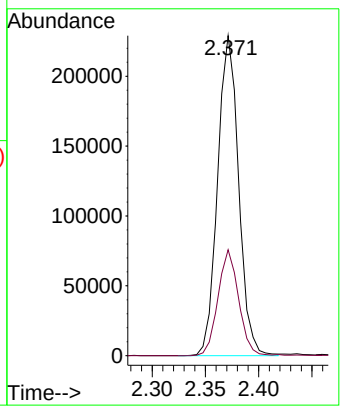




#3
Chloromethane
Concen: 46.044 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 50 Resp: 31382

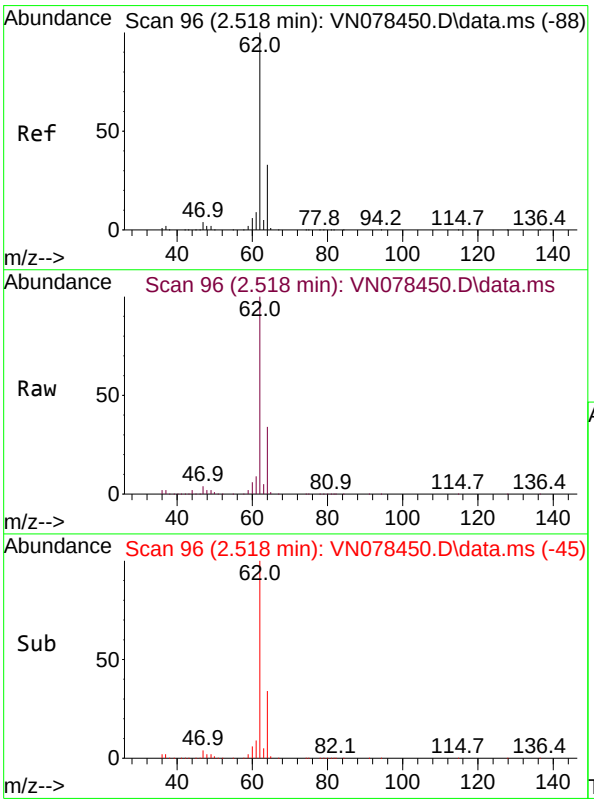
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

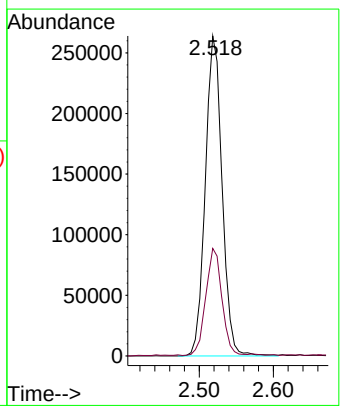
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

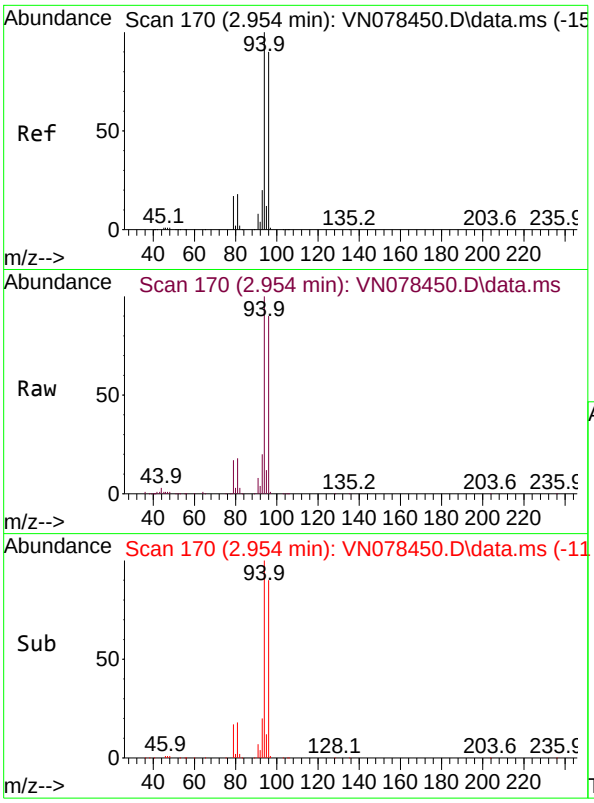


#4
Vinyl Chloride
Concen: 47.140 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 62 Resp: 415635

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.2	39.2

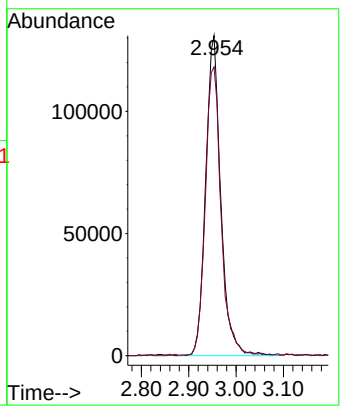




#5
Bromomethane
Concen: 52.428 ug/l
RT: 2.954 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 94 Resp: 29103

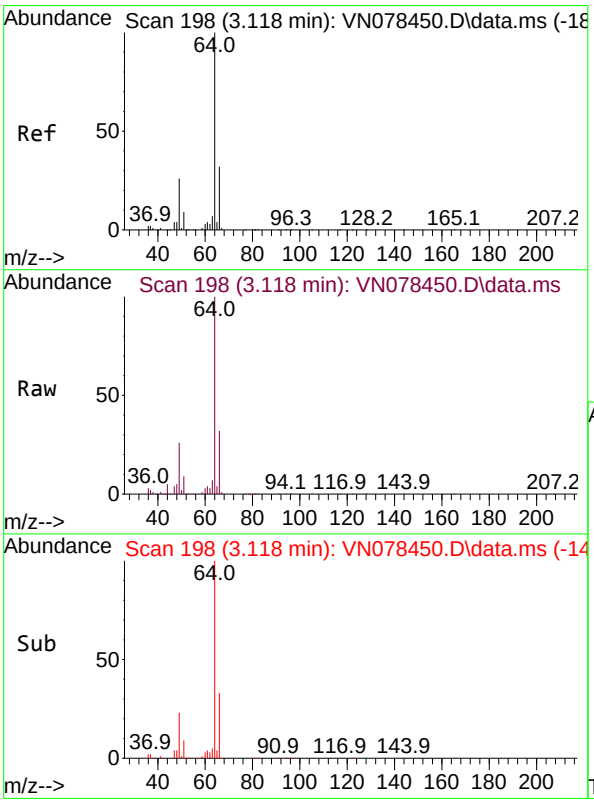
Ion	Ratio	Lower	Upper
94	100		
96	90.0	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

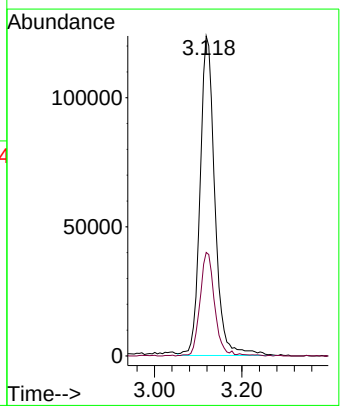
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

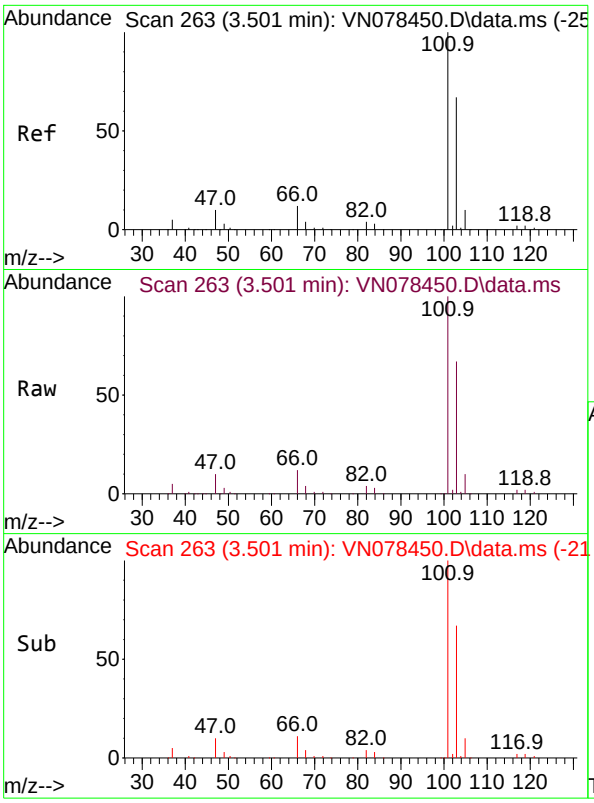


#6
Chloroethane
Concen: 54.814 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 64 Resp: 291365

Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.4	38.2

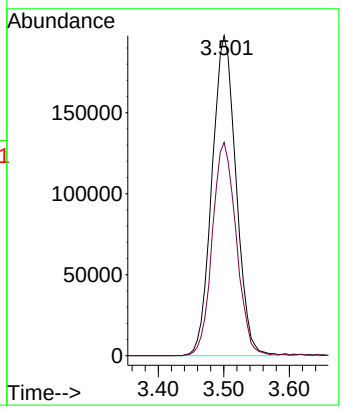




#7
Trichlorofluoromethane
Concen: 47.691 ug/l
RT: 3.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:101 Resp: 50265

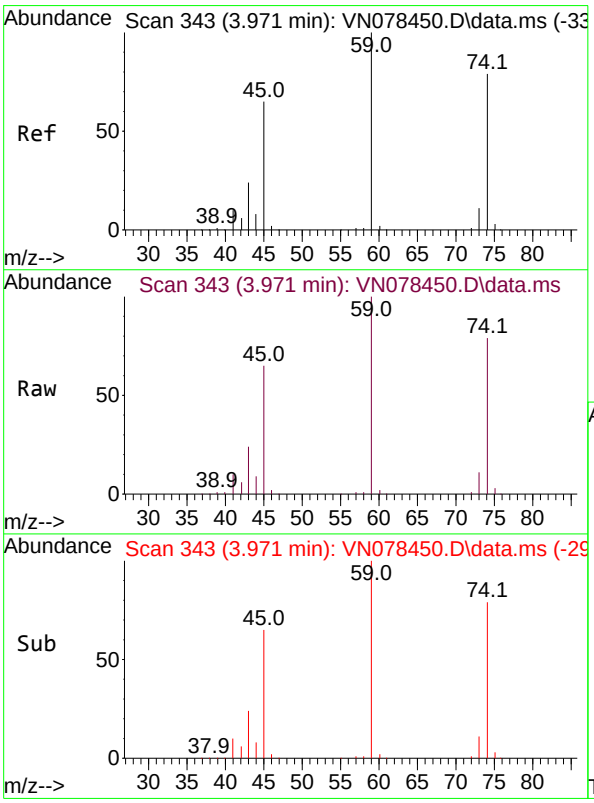
Ion	Ratio	Lower	Upper
101	100		
103	66.6	50.7	76.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

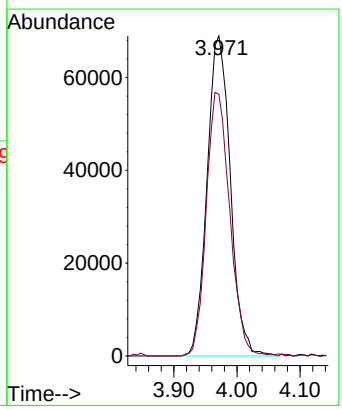
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

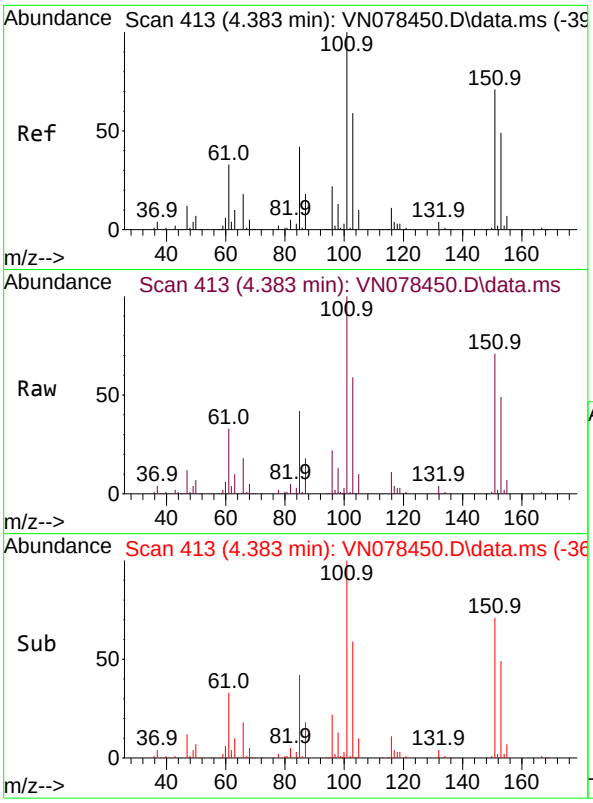


#8
Diethyl Ether
Concen: 50.251 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 74 Resp: 176460

Ion	Ratio	Lower	Upper
74	100		
45	83.3	34.4	103.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.256 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

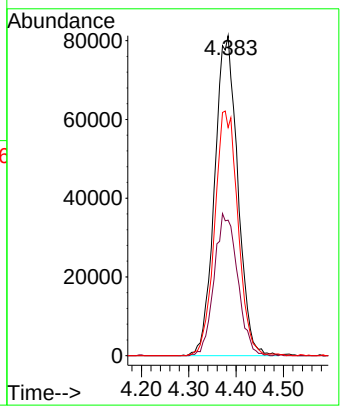
Tgt Ion:101 Resp: 27481

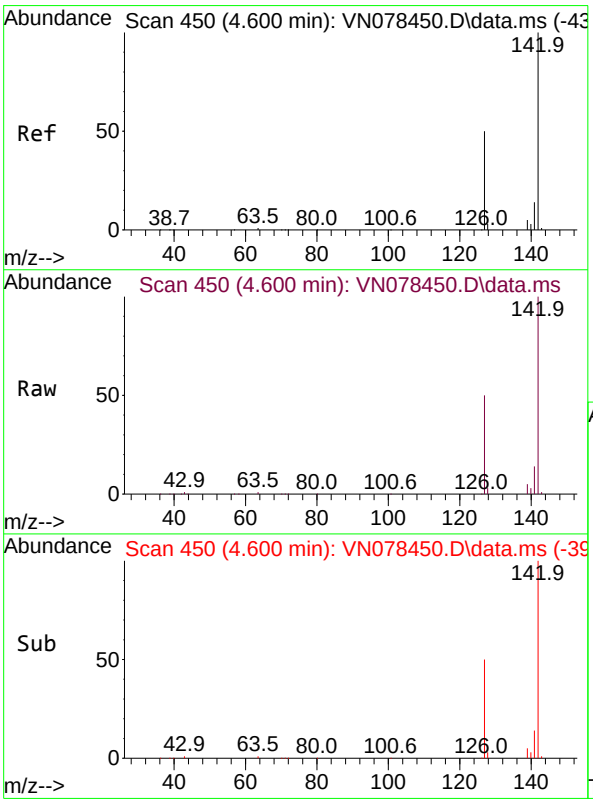
Ion	Ratio	Lower	Upper
101	100		
85	45.0	36.6	55.0
151	77.2	57.6	86.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

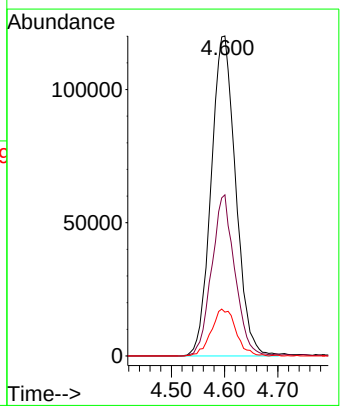


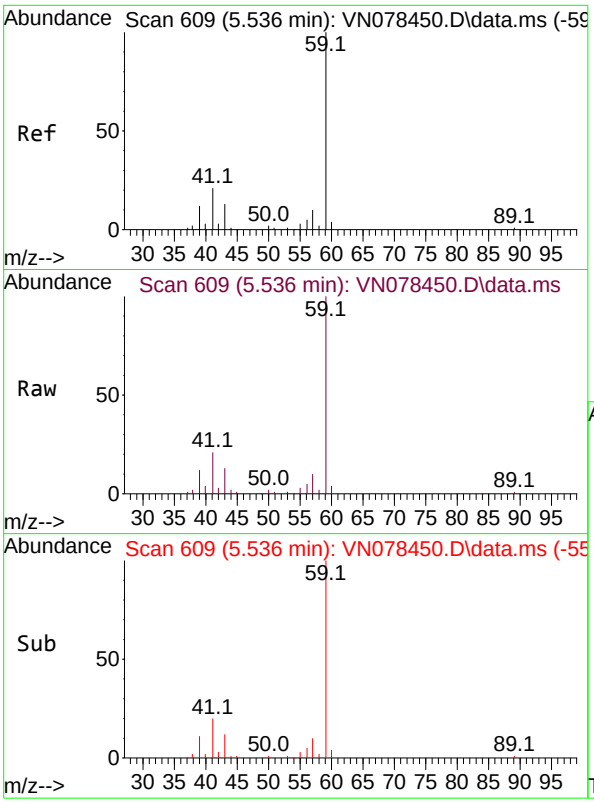


#10
Methyl Iodide
Concen: 50.113 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:142 Resp: 384209

Ion	Ratio	Lower	Upper
142	100		
127	50.4	37.6	56.4
141	13.7	11.4	17.0

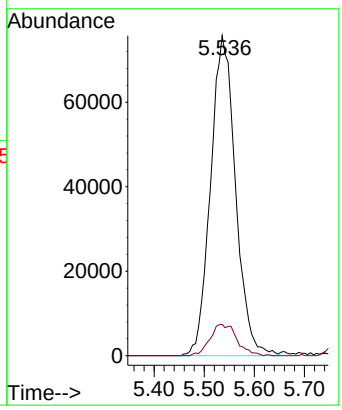




#11
Tert butyl alcohol
Concen: 247.624 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 59 Resp: 26182

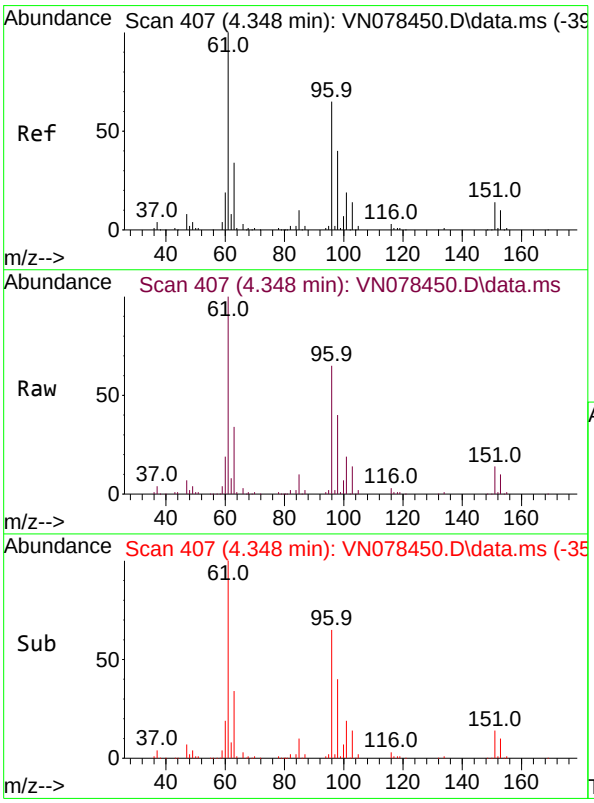
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

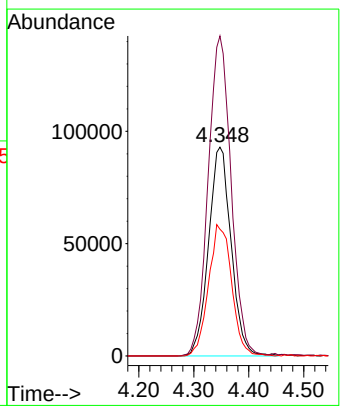
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

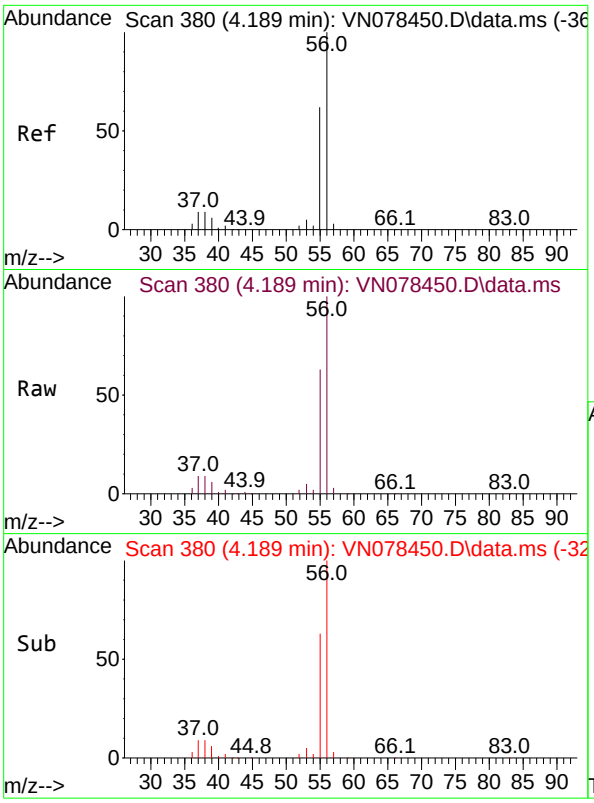


#12
1,1-Dichloroethene
Concen: 49.212 ug/l
RT: 4.348 min Scan# 407
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 96 Resp: 265593

Ion	Ratio	Lower	Upper
96	100		
61	153.3	112.7	169.1
98	60.7	51.2	76.8

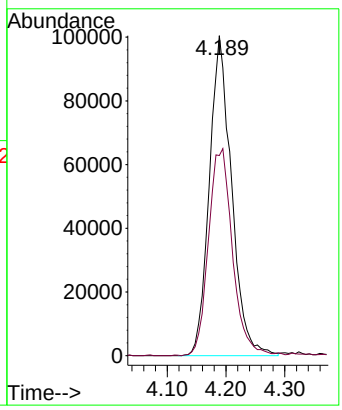




#13
Acrolein
Concen: 253.584 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 56 Resp: 26379

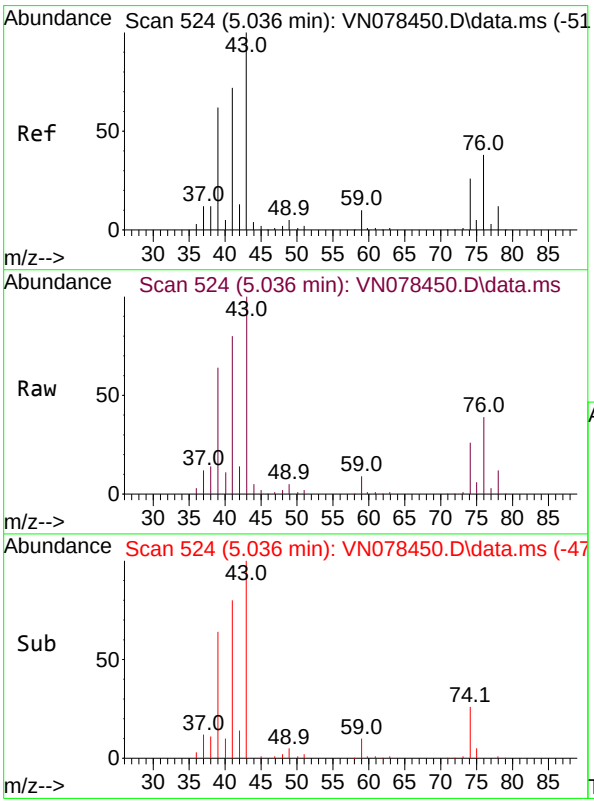
Ion	Ratio	Lower	Upper
56	100		
55	69.8	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

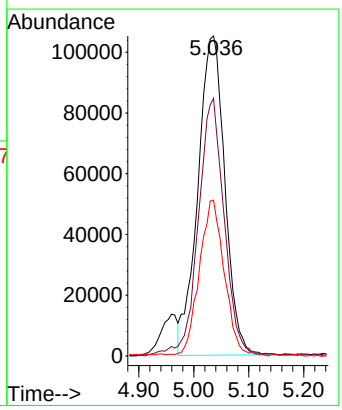
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

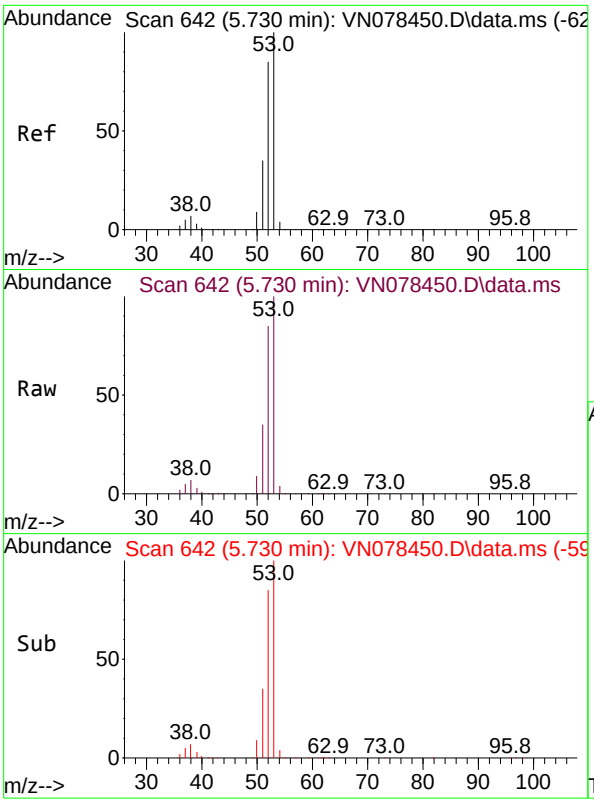


#14
Allyl chloride
Concen: 48.623 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 41 Resp: 358576

Ion	Ratio	Lower	Upper
41	100		
39	77.5	58.8	88.2
76	45.4	39.1	58.7

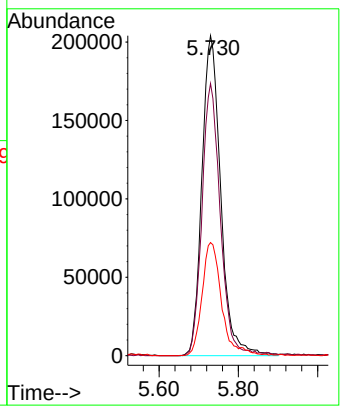




#15
Acrylonitrile
Concen: 251.883 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 53 Resp: 67290

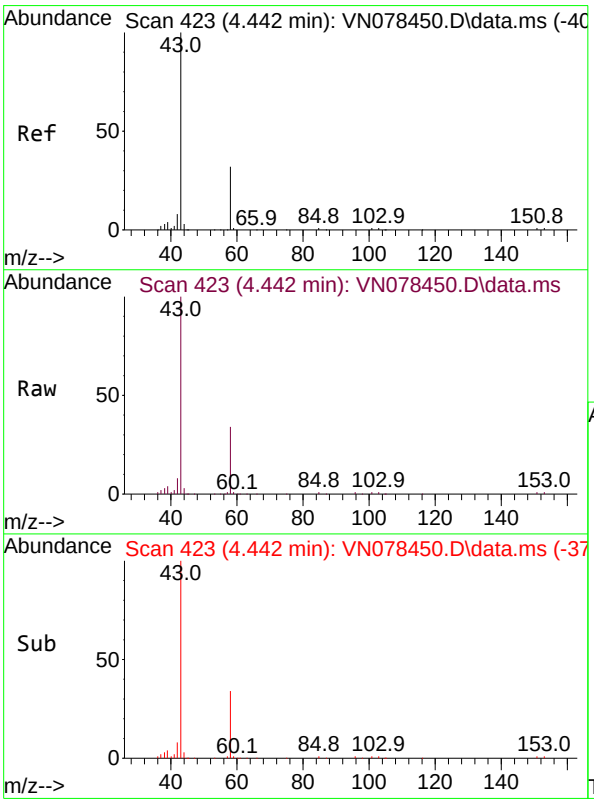
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.3	97.9
51	36.8	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

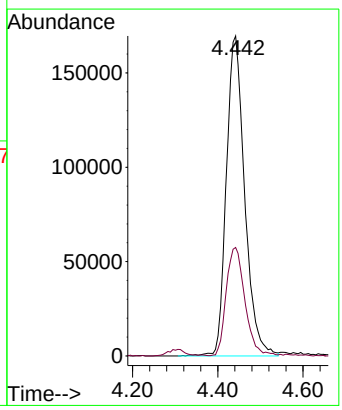
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

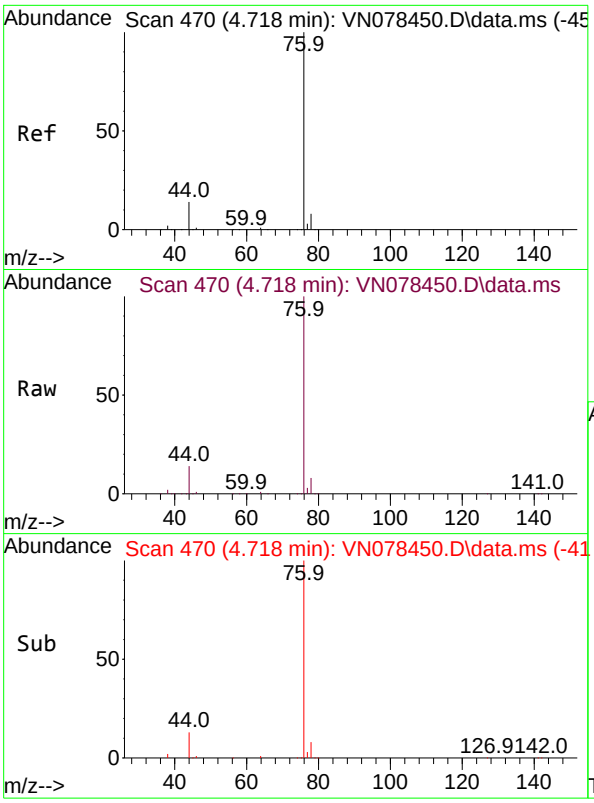


#16
Acetone
Concen: 237.268 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 506777

Ion	Ratio	Lower	Upper
43	100		
58	33.5	28.0	42.0





#17
Carbon Disulfide
Concen: 47.204 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

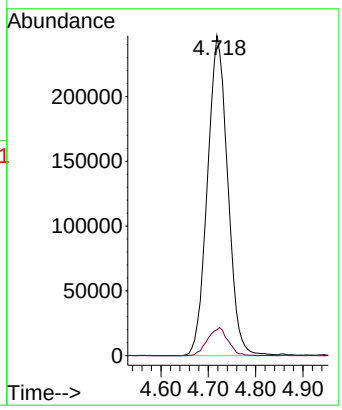
Tgt Ion: 76 Resp: 73666

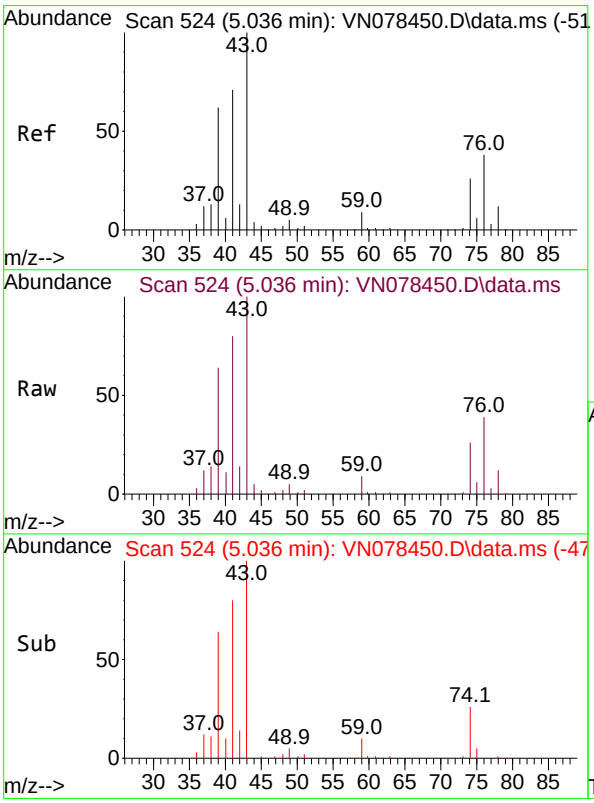
Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.4	11.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

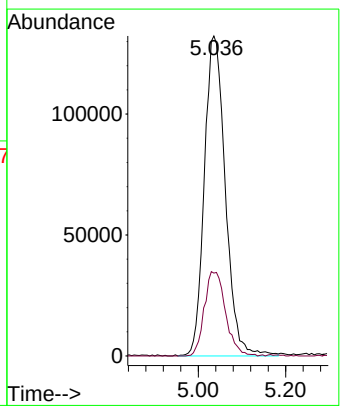


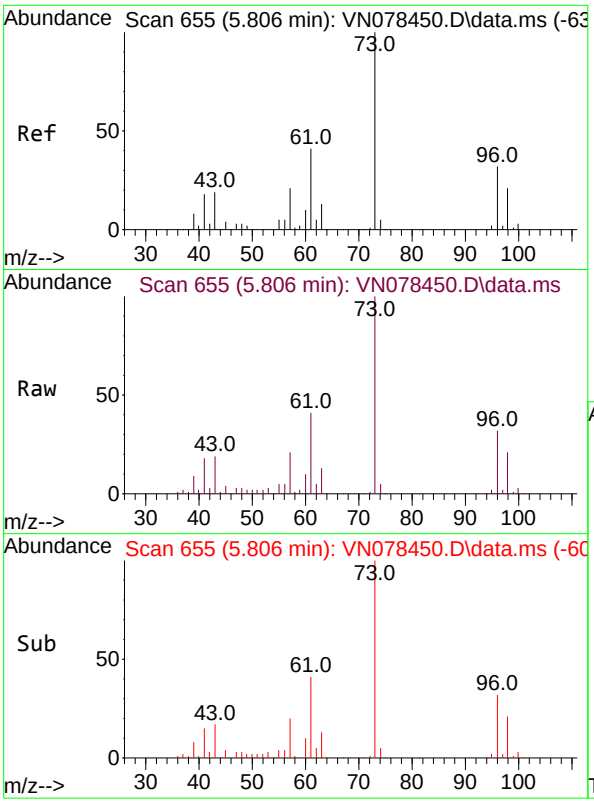


#18
Methyl Acetate
Concen: 48.906 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 442186

Ion	Ratio	Lower	Upper
43	100		
74	26.5	26.2	39.4

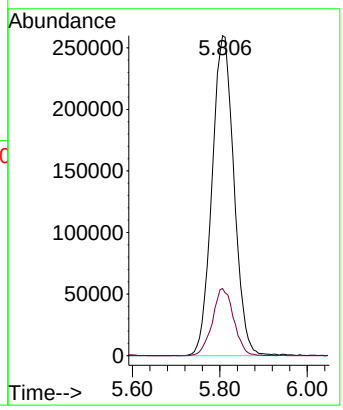




#19
Methyl tert-butyl Ether
Concen: 50.840 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 73 Resp: 90402

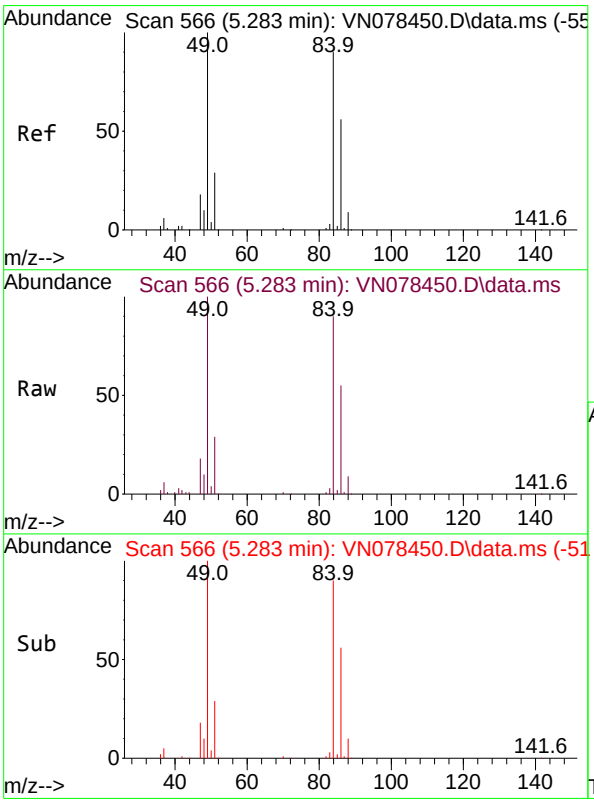
Ion	Ratio	Lower	Upper
73	100		
57	21.0	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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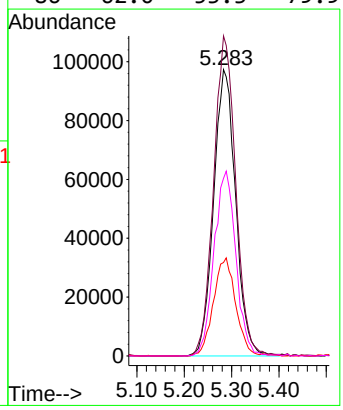
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

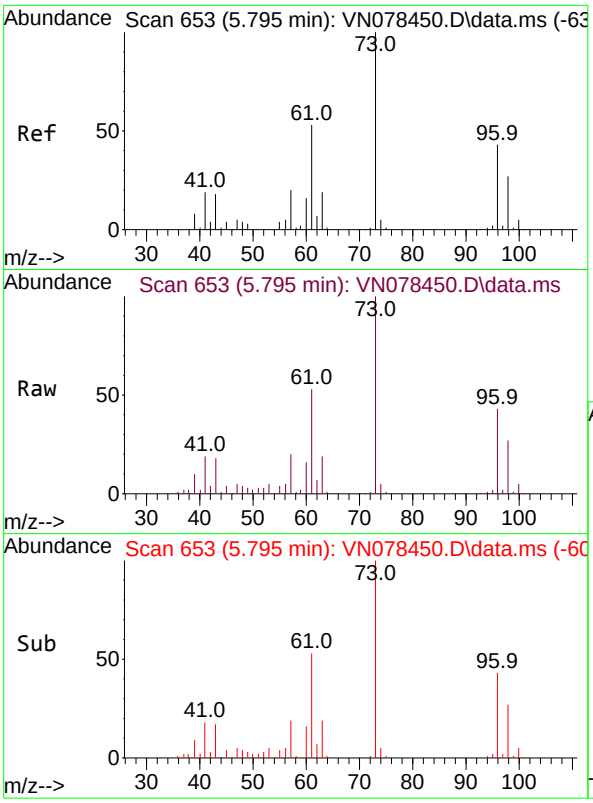


#20
Methylene Chloride
Concen: 50.182 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 84 Resp: 314383

Ion	Ratio	Lower	Upper
84	100		
49	111.7	79.7	119.5
51	32.6	25.2	37.8
86	62.0	53.3	79.9

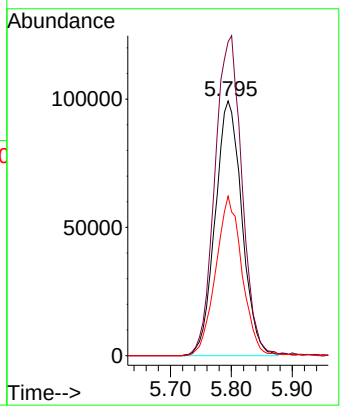




#21
trans-1,2-Dichloroethene
Concen: 49.821 ug/l
RT: 5.795 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 96 Resp: 30299

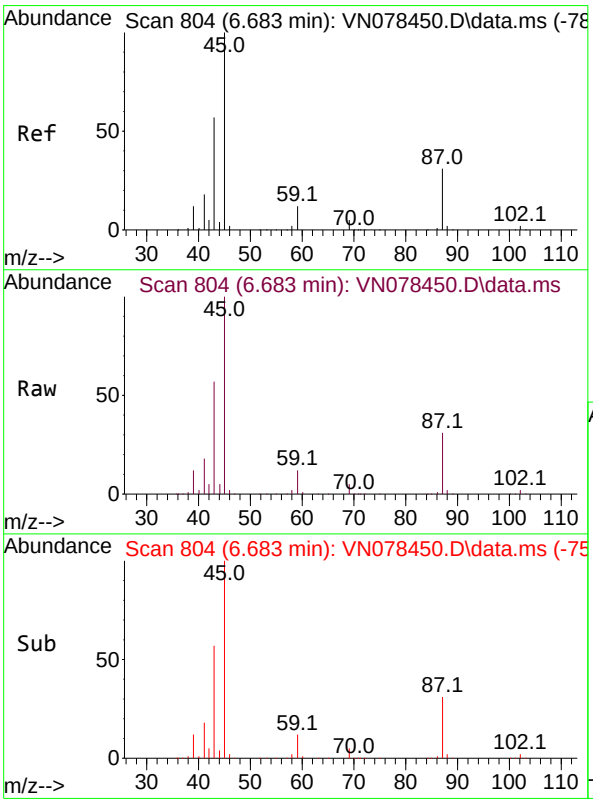
Ion	Ratio	Lower	Upper
96	100		
61	123.2	90.1	135.1
98	62.7	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

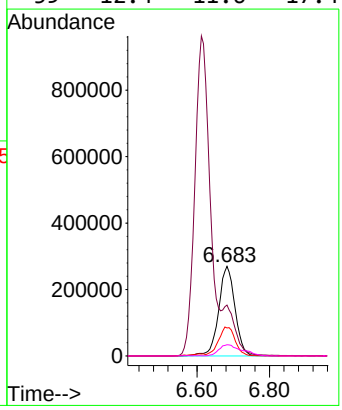
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

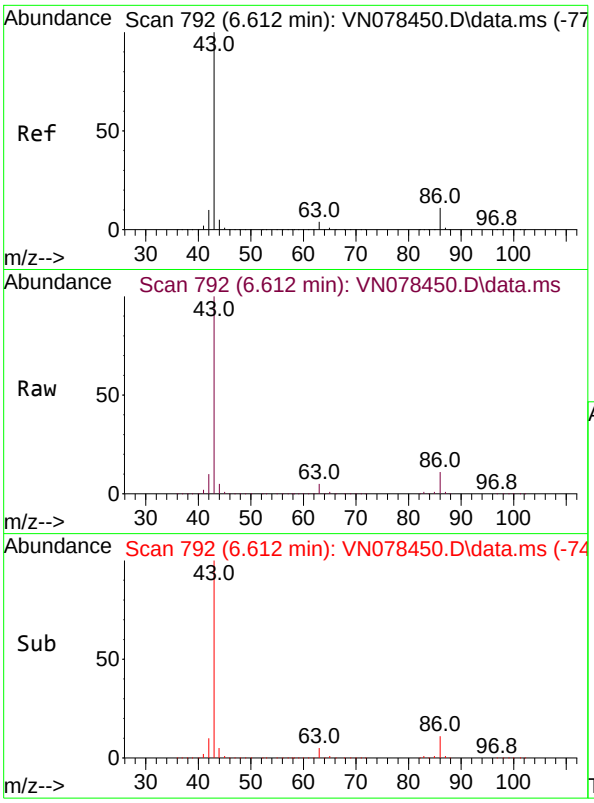


#22
Diisopropyl ether
Concen: 51.213 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 45 Resp: 845665

Ion	Ratio	Lower	Upper
45	100		
43	56.5	45.5	68.3
87	31.3	31.8	47.8#
59	12.4	11.6	17.4

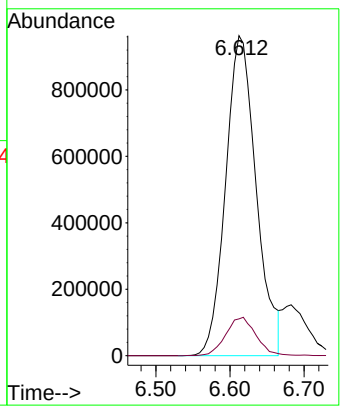




#23
Vinyl Acetate
Concen: 263.451 ug/l
RT: 6.612 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 276563

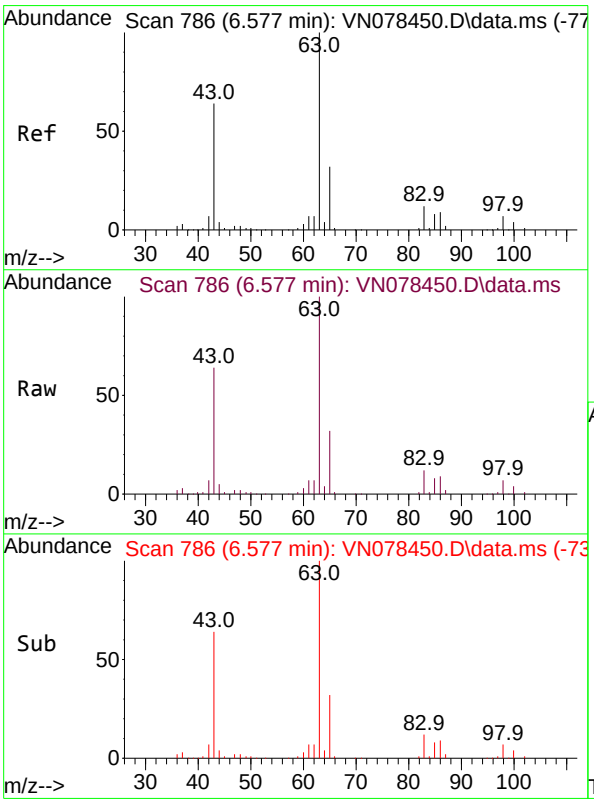
Ion	Ratio	Lower	Upper
43	100		
86	11.5	13.0	19.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

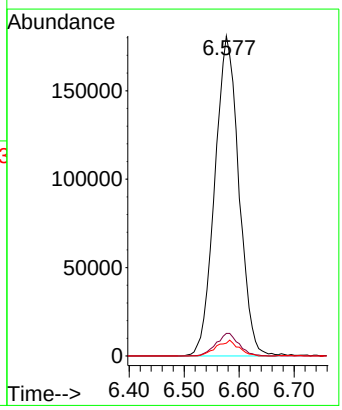
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

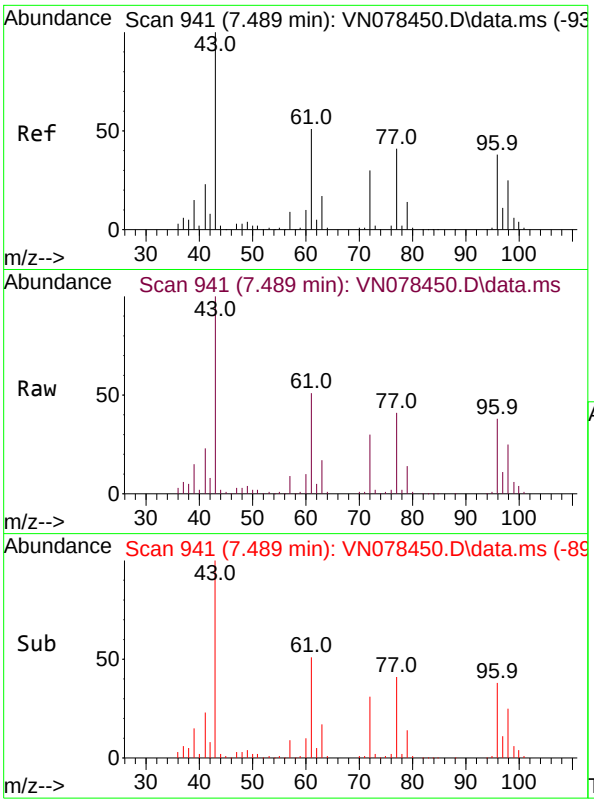


#24
1,1-Dichloroethane
Concen: 49.464 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 63 Resp: 550375

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.9	11.7
100	4.0	2.5	7.4





#25
2-Butanone
Concen: 251.324 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

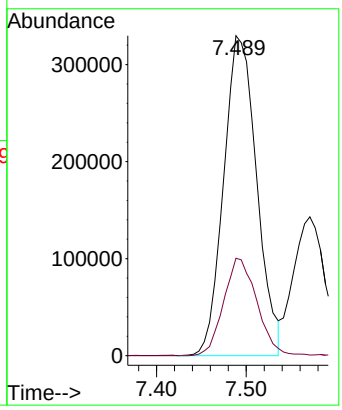
Tgt Ion: 43 Resp: 84499

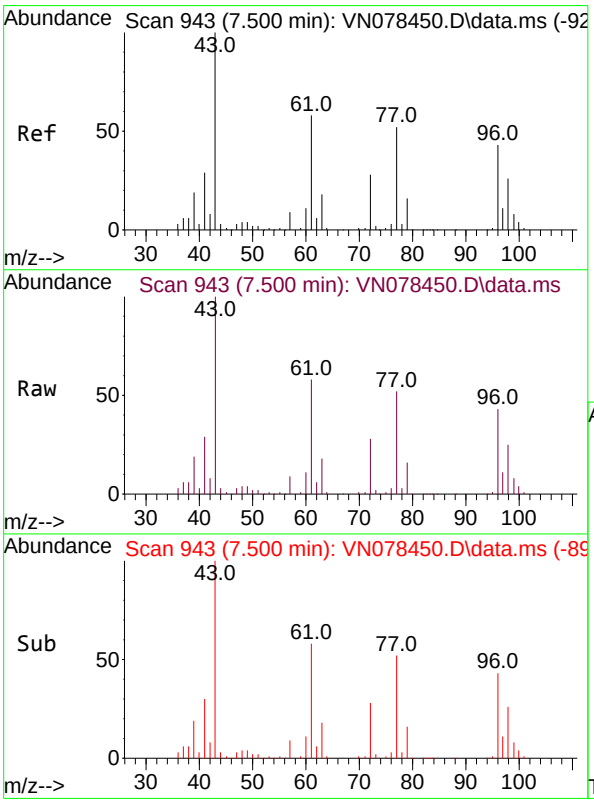
Ion	Ratio	Lower	Upper
43	100		
72	30.5	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

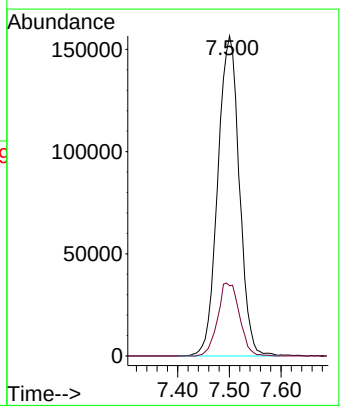


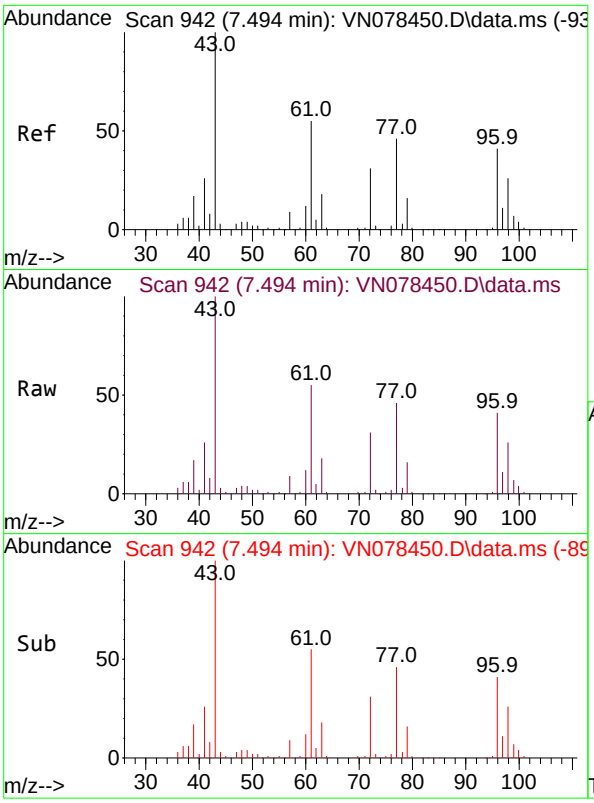


#26
2,2-Dichloropropane
Concen: 49.755 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 77 Resp: 452793

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.2	33.6

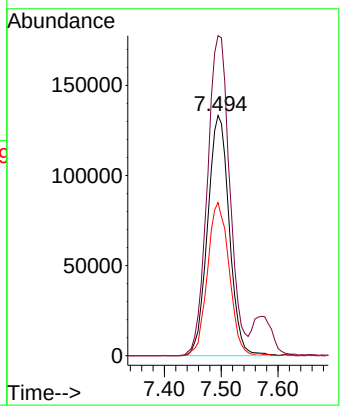




#27
cis-1,2-Dichloroethene
Concen: 50.005 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 96 Resp: 35180

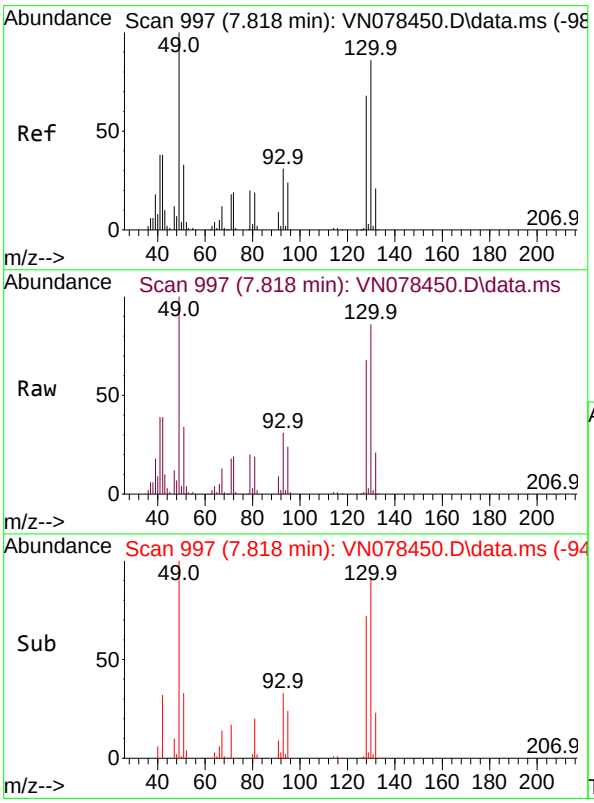
Ion	Ratio	Lower	Upper
96	100		
61	138.1	0.0	255.2
98	63.8	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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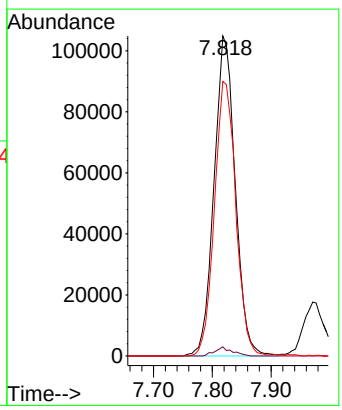
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

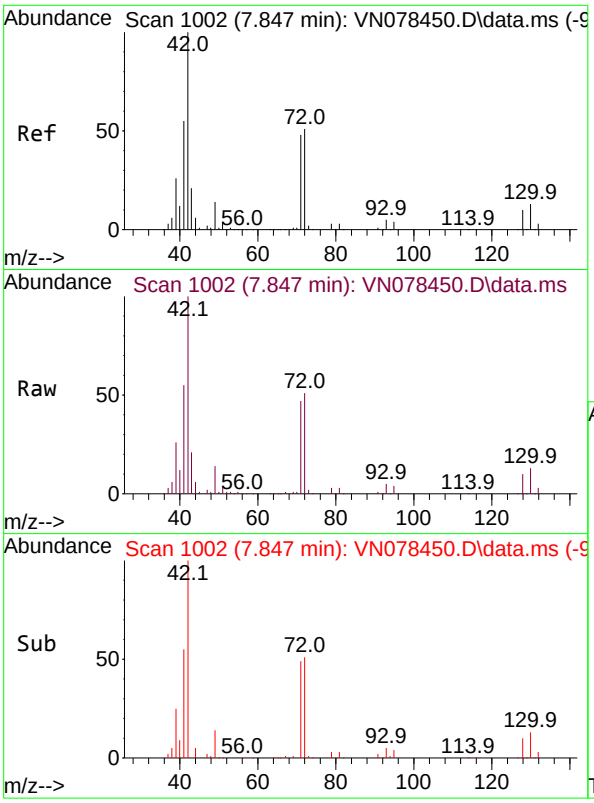


#28
Bromochloromethane
Concen: 50.081 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 49 Resp: 262465

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.8
130	86.4	75.3	112.9





#29
Tetrahydrofuran
Concen: 256.244 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

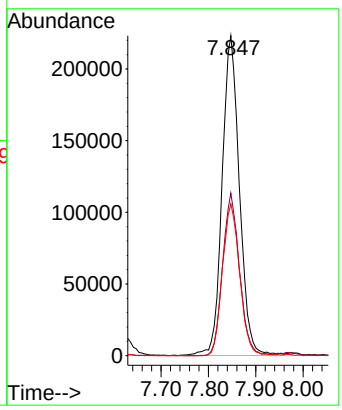
Tgt Ion: 42 Resp: 56531

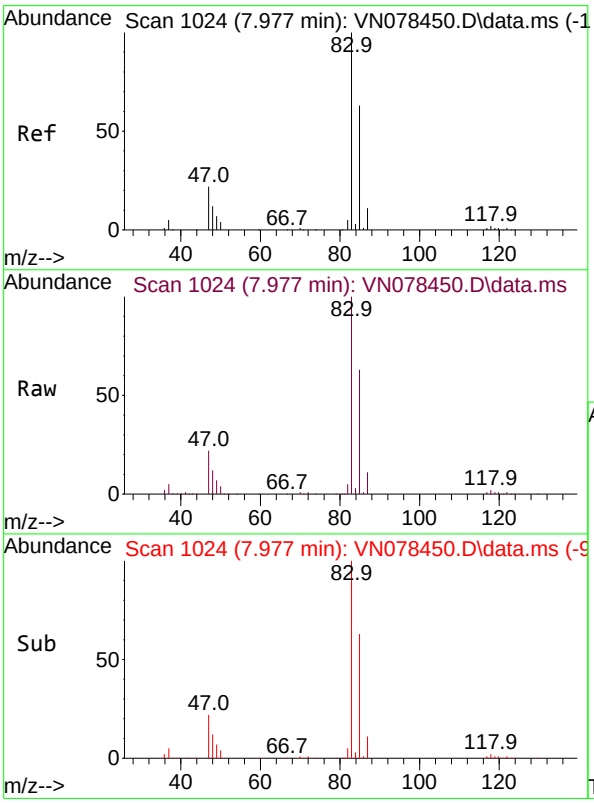
Ion	Ratio	Lower	Upper
42	100		
72	49.5	49.8	74.6
71	47.5	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

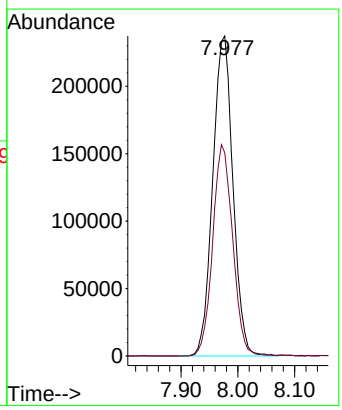


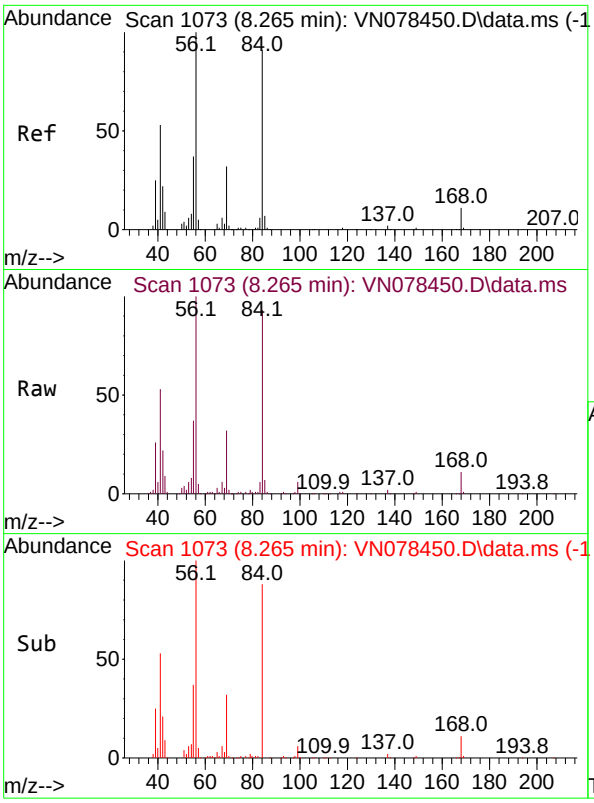


#30
Chloroform
Concen: 50.585 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 83 Resp: 585983

Ion	Ratio	Lower	Upper
83	100		
85	63.5	55.4	83.0

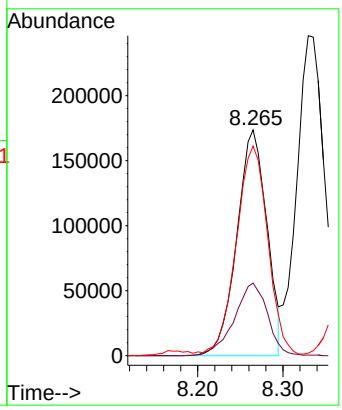




#31
Cyclohexane
Concen: 45.790 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 56 Resp: 42431

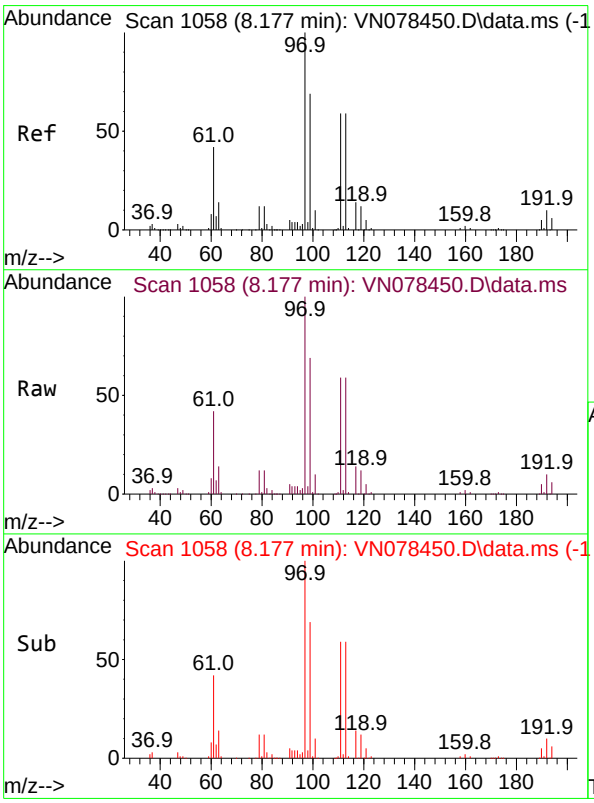
Ion	Ratio	Lower	Upper
56	100		
69	32.2	26.8	40.2
84	90.6	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

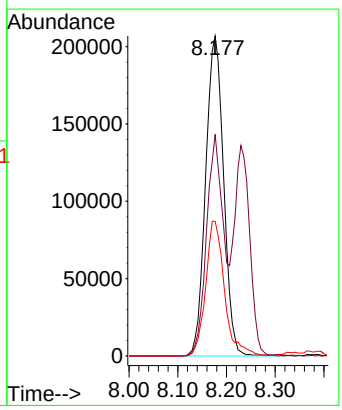
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

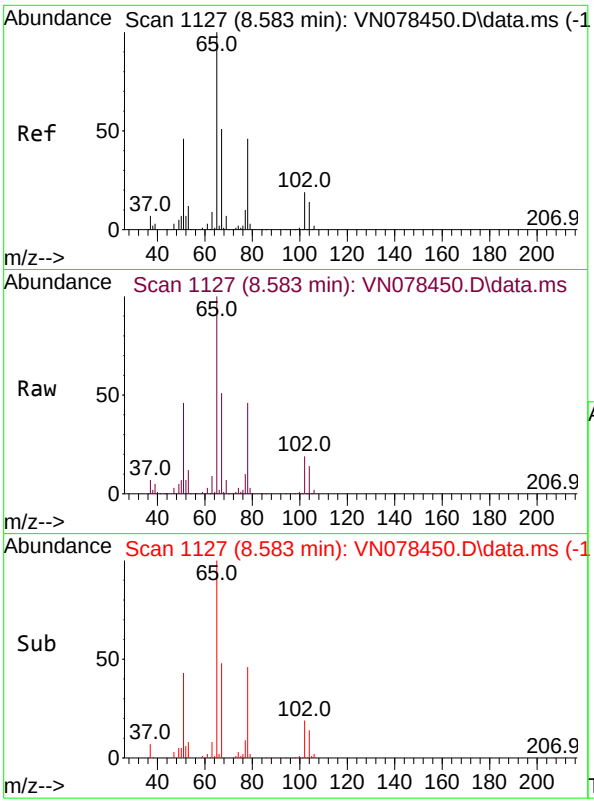


#32
1,1,1-Trichloroethane
Concen: 50.853 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 97 Resp: 528160

Ion	Ratio	Lower	Upper
97	100		
99	66.2	50.3	75.5
61	44.3	34.7	52.1

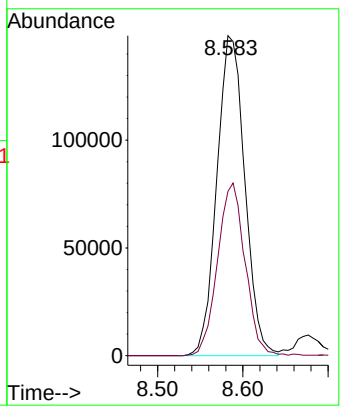




#33
1,2-Dichloroethane-d4
Concen: 49.392 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 65 Resp: 33867

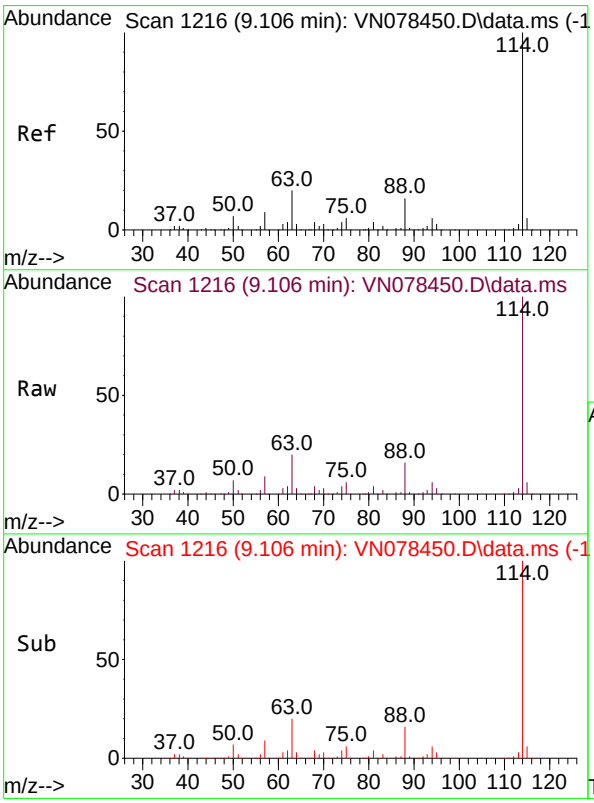
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

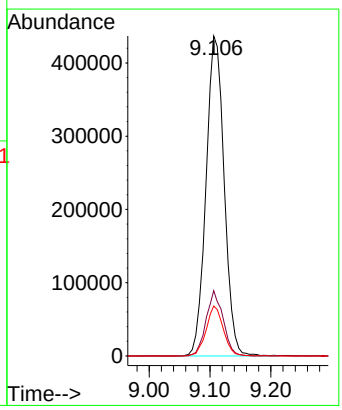
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

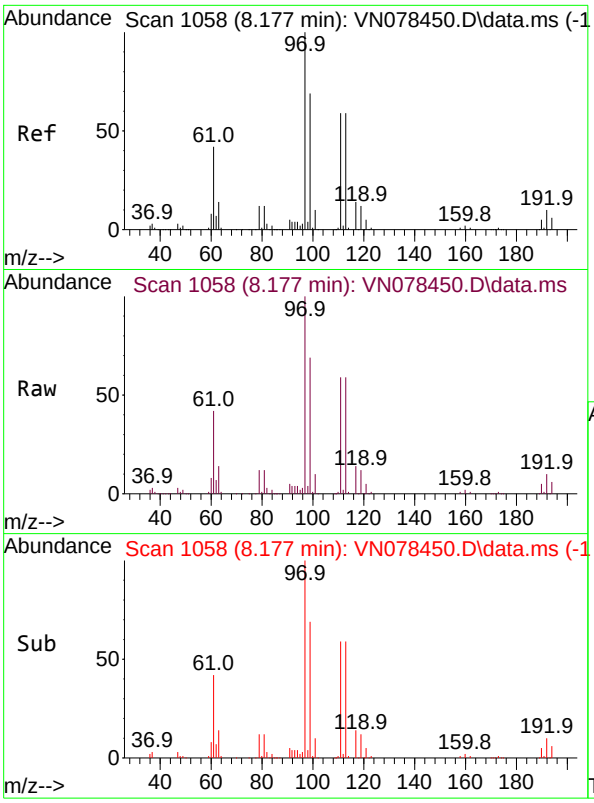


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:114 Resp: 903394

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	36.4
88	15.6	0.0	30.6

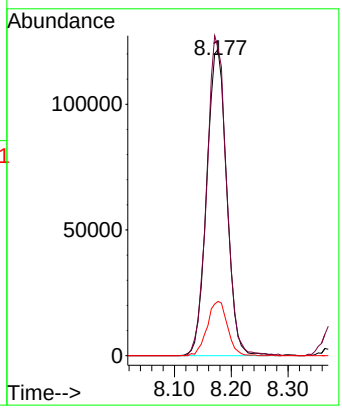




#35
Dibromofluoromethane
Concen: 48.706 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:113 Resp: 29869

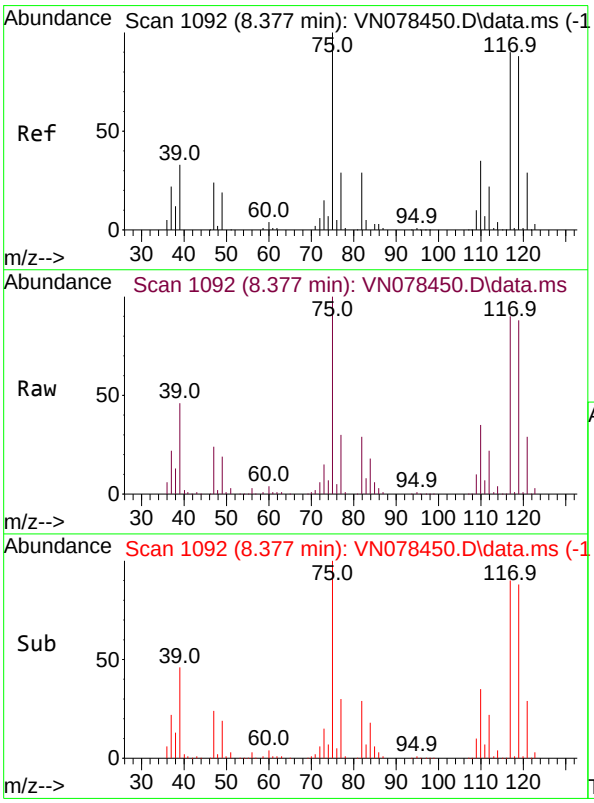
Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	17.8	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

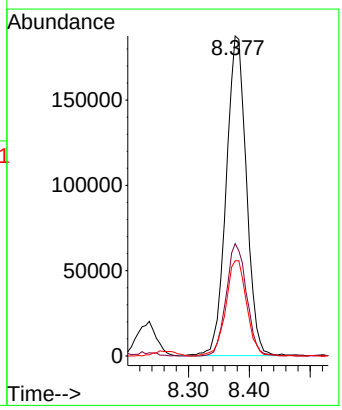
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

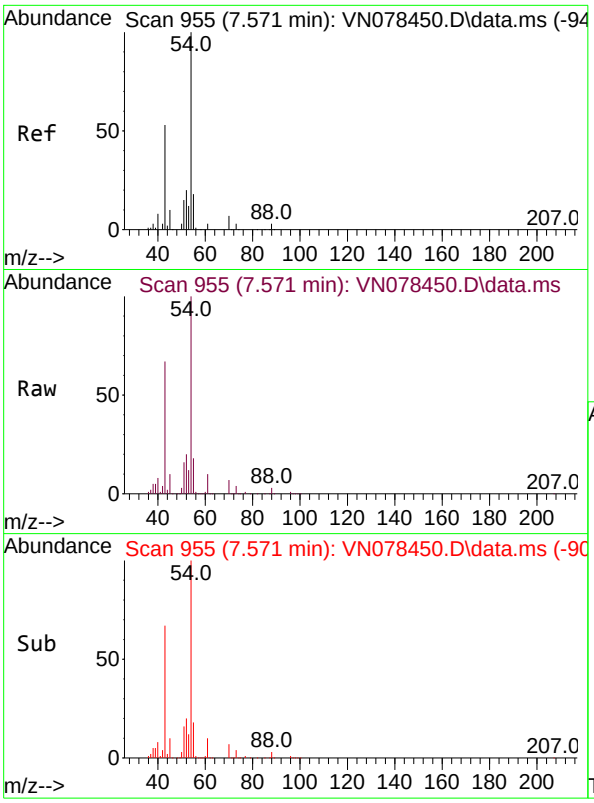


#36
1,1-Dichloropropene
Concen: 48.640 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 430695

Ion	Ratio	Lower	Upper
75	100		
110	35.5	19.1	57.3
77	30.9	25.0	37.4

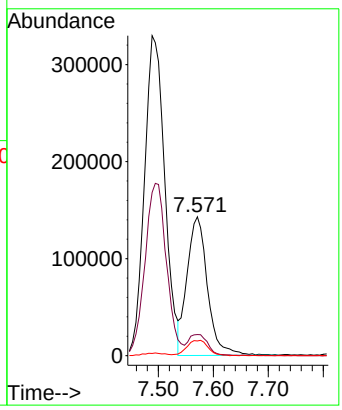




#37
Ethyl Acetate
Concen: 50.053 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 36946

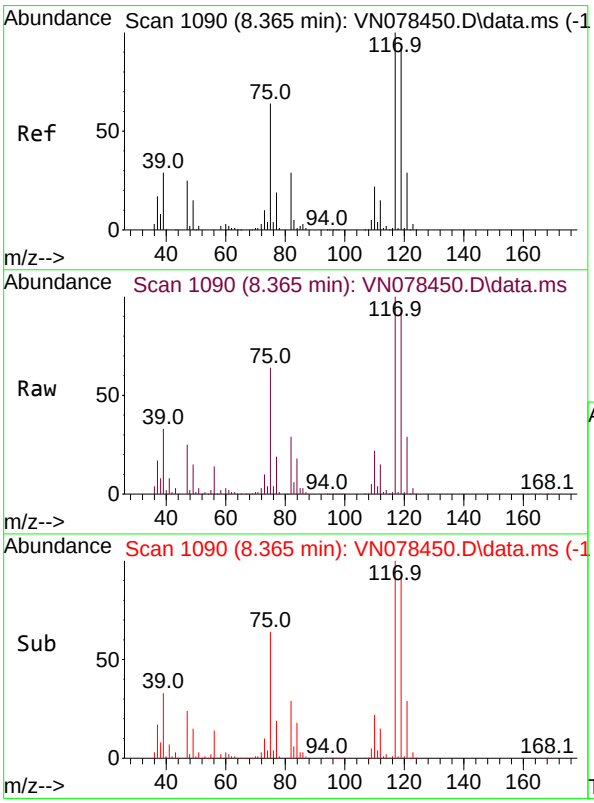
Ion	Ratio	Lower	Upper
43	100		
61	14.0	13.2	19.8
70	11.2	11.3	16.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

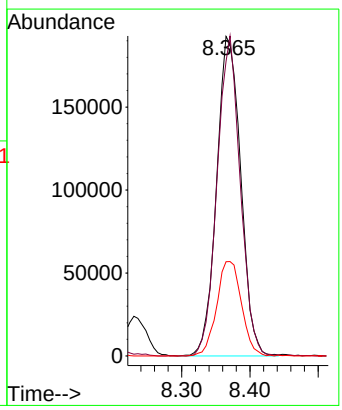
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

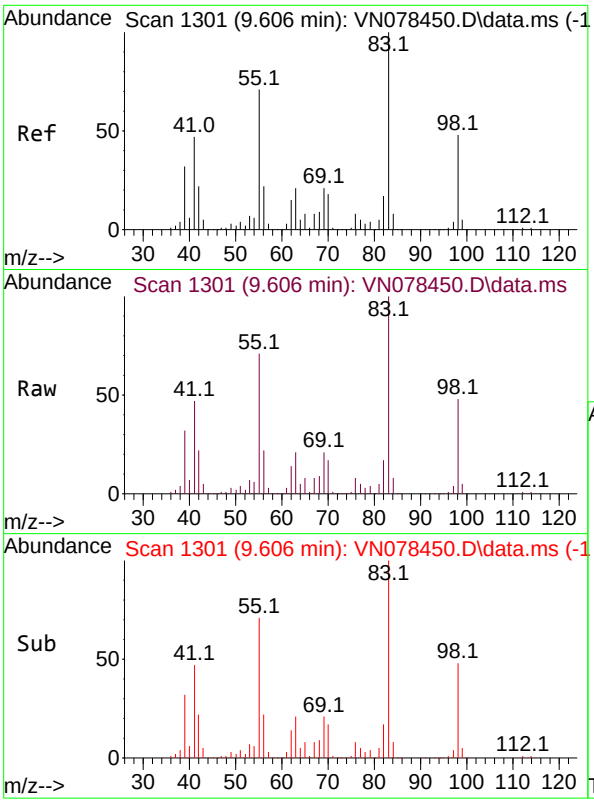


#38
Carbon Tetrachloride
Concen: 49.353 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:117 Resp: 474963

Ion	Ratio	Lower	Upper
117	100		
119	92.2	77.3	115.9
121	29.5	23.3	34.9

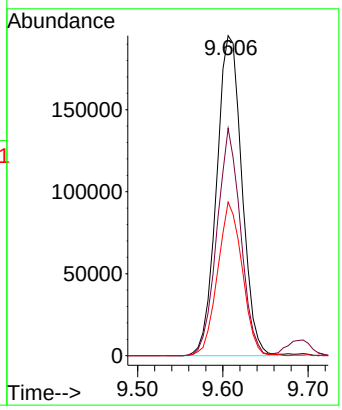




#39
Methylcyclohexane
Concen: 49.825 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 83 Resp: 40271

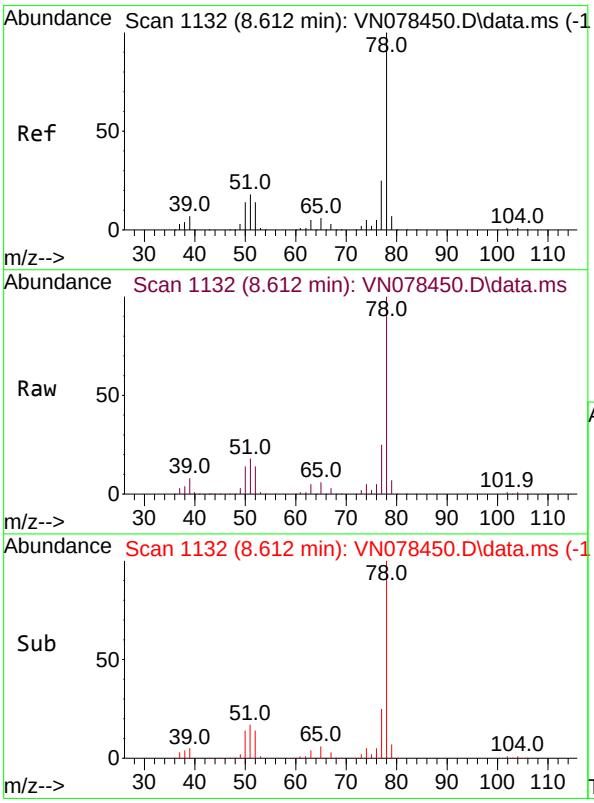
Ion	Ratio	Lower	Upper
83	100		
55	71.0	49.1	73.7
98	48.0	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

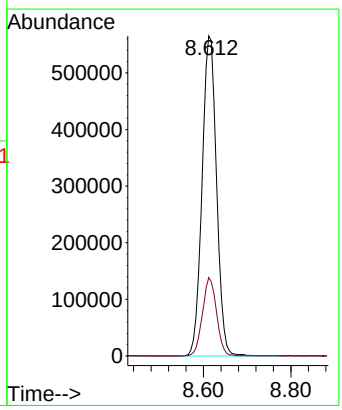
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

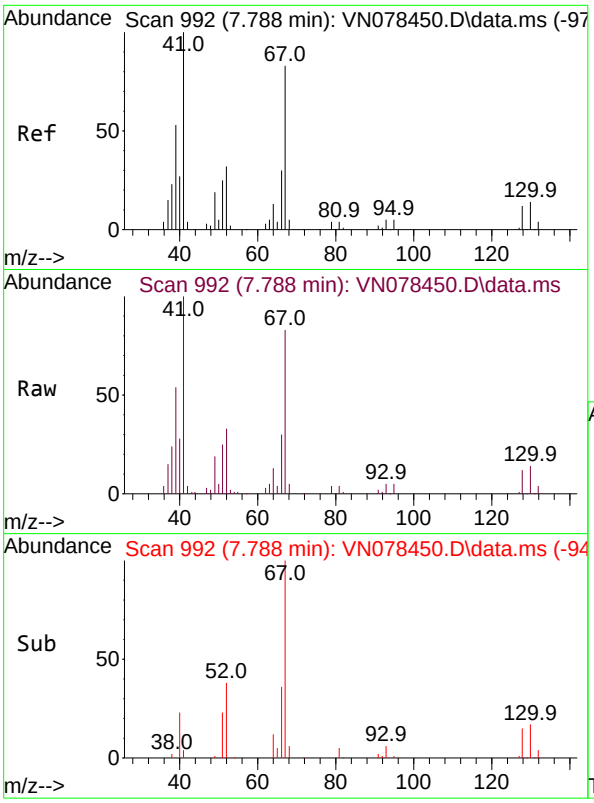


#40
Benzene
Concen: 49.690 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 78 Resp: 1303523

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.0	28.6

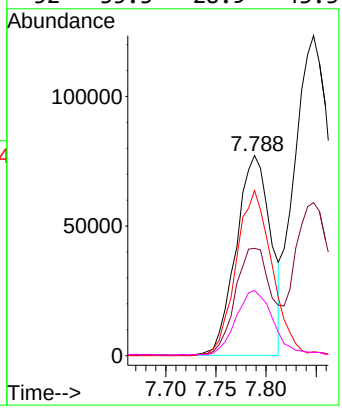




#41
Methacrylonitrile
Concen: 49.156 ug/l
RT: 7.788 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 41 Resp: 18497

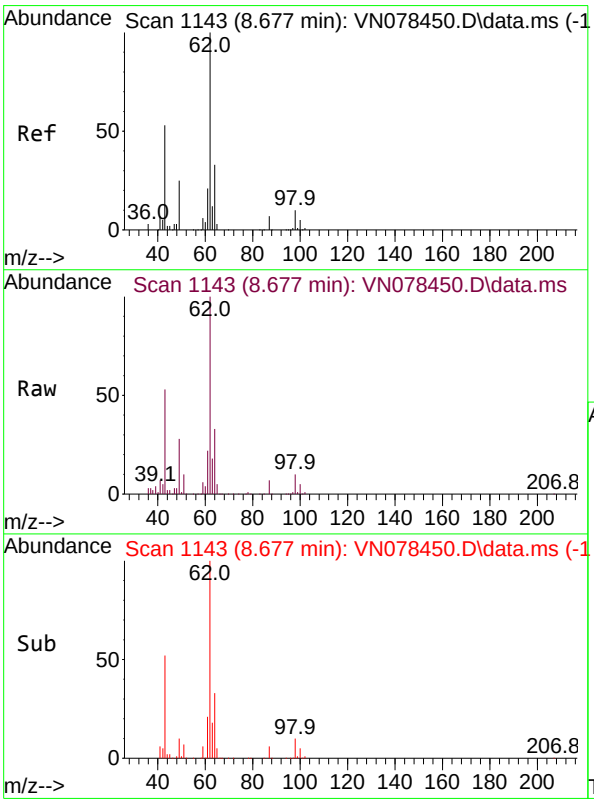
Ion	Ratio	Lower	Upper
41	100		
39	59.1	42.6	64.0
67	86.7	77.5	116.3
52	35.3	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

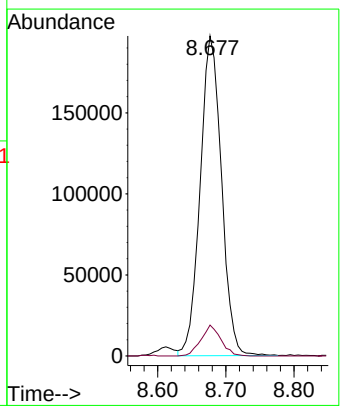
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

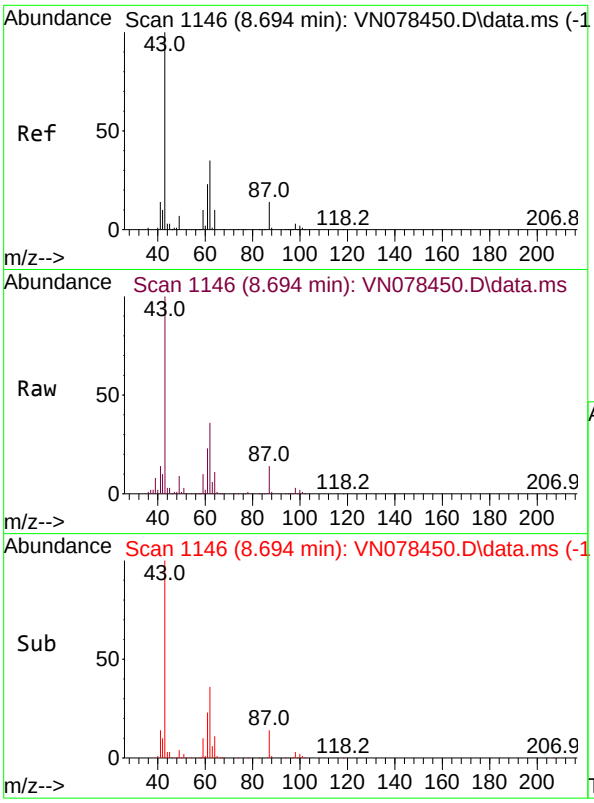


#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 62 Resp: 428689

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	19.8

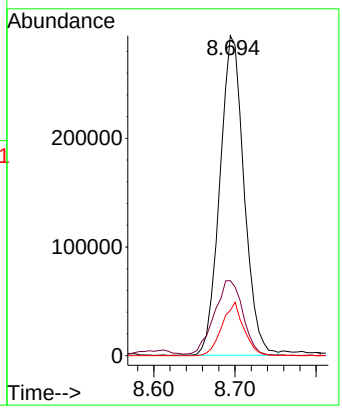




#43
Isopropyl Acetate
Concen: 50.167 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 60966

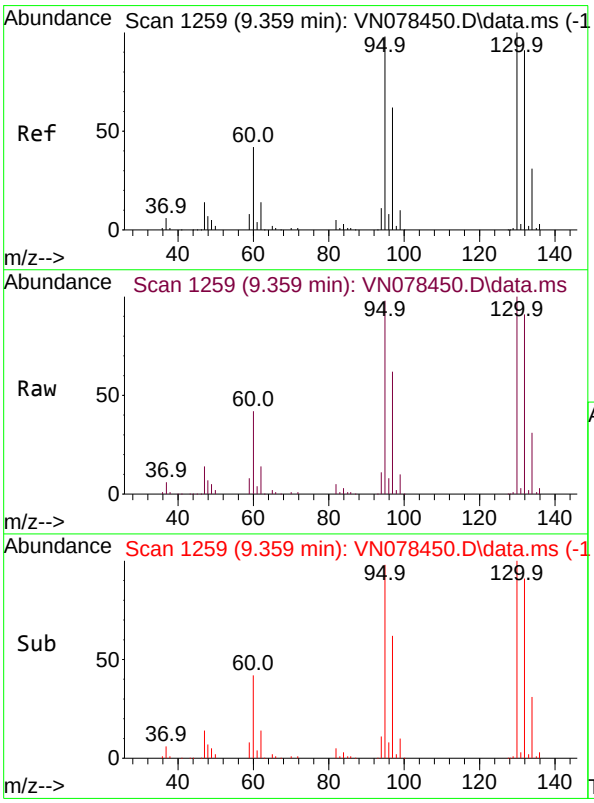
Ion	Ratio	Lower	Upper
43	100		
61	28.0	24.7	37.1
87	15.1	14.6	21.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

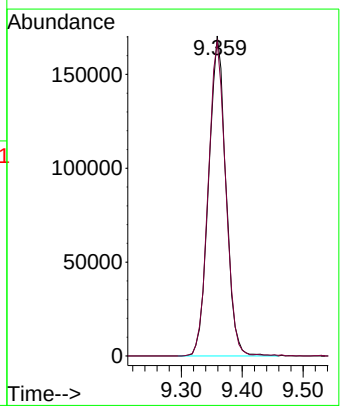
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

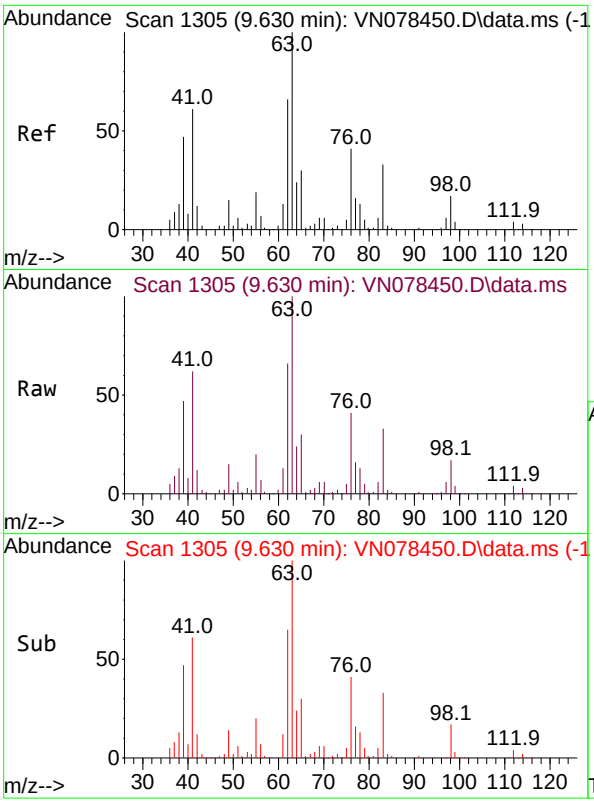


#44
Trichloroethene
Concen: 47.401 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:130 Resp: 335140

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	204.6

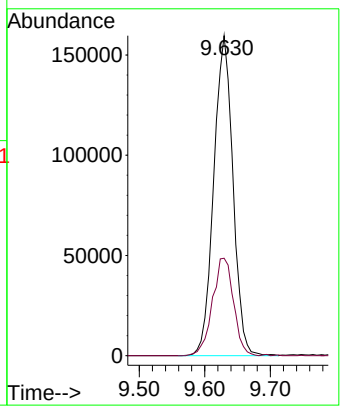




#45
1,2-Dichloropropane
Concen: 48.734 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 63 Resp: 32379

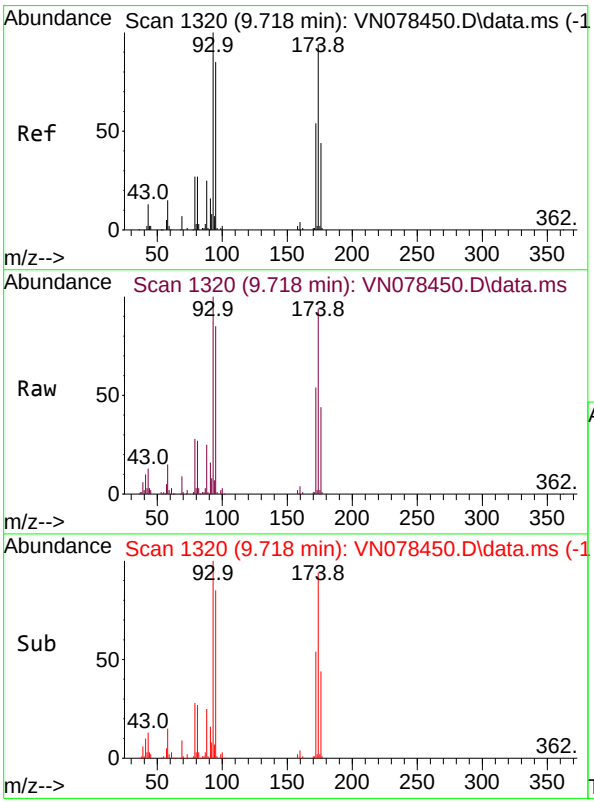
Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

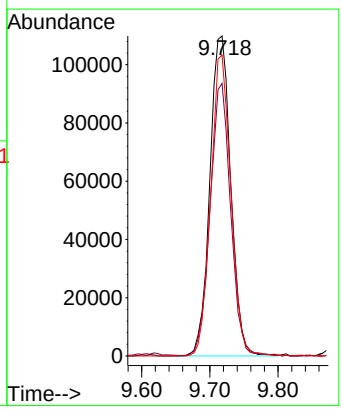
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

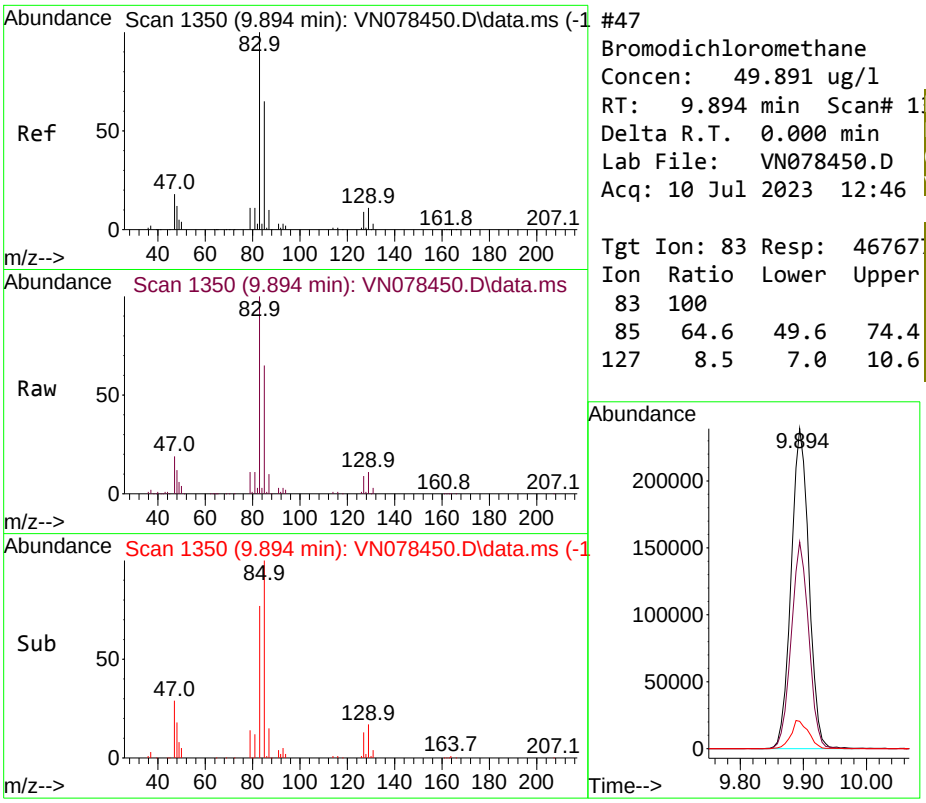


#46
Dibromomethane
Concen: 50.145 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 93 Resp: 234496

Ion	Ratio	Lower	Upper
93	100		
95	83.4	63.8	95.8
174	90.7	65.6	98.4





#47
Bromodichloromethane
Concen: 49.891 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

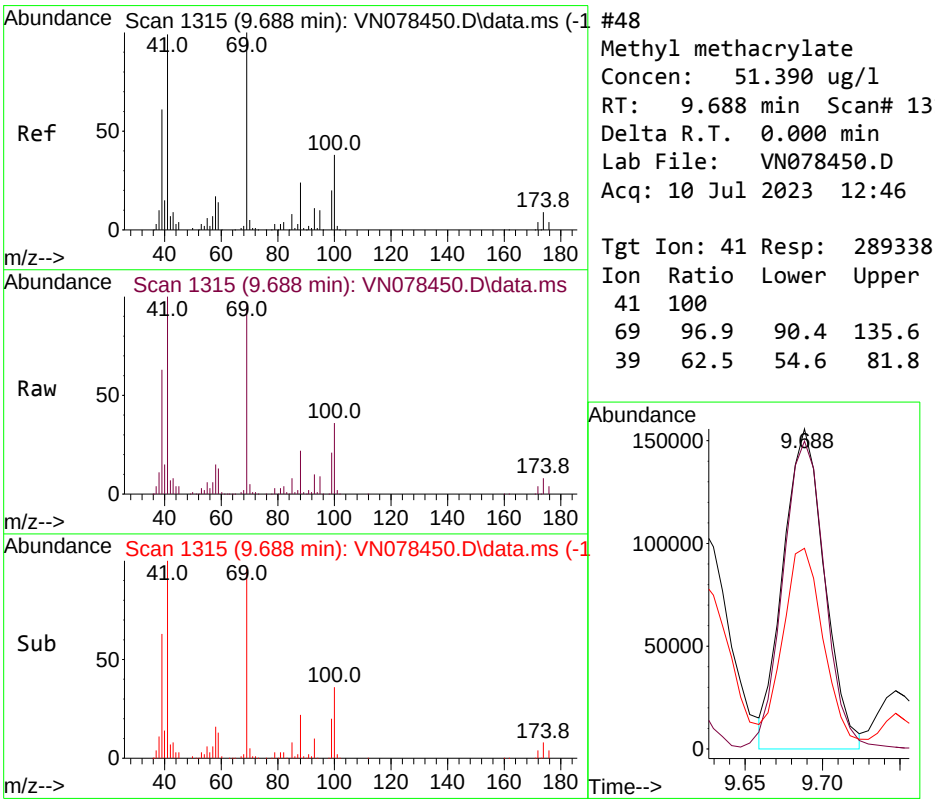
Tgt Ion: 83 Resp: 46767

Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.6	74.4
127	8.5	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

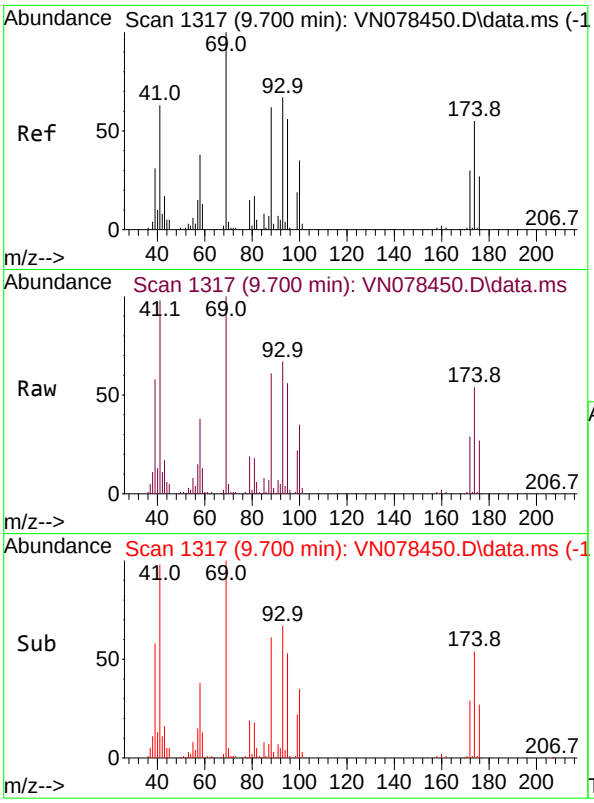
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#48
Methyl methacrylate
Concen: 51.390 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 41 Resp: 289338

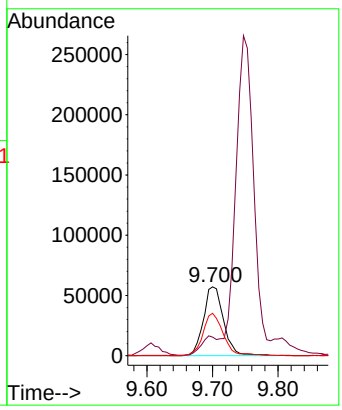
Ion	Ratio	Lower	Upper
41	100		
69	96.9	90.4	135.6
39	62.5	54.6	81.8



#49
1,4-Dioxane
Concen: 993.233 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 88 Resp: 12195

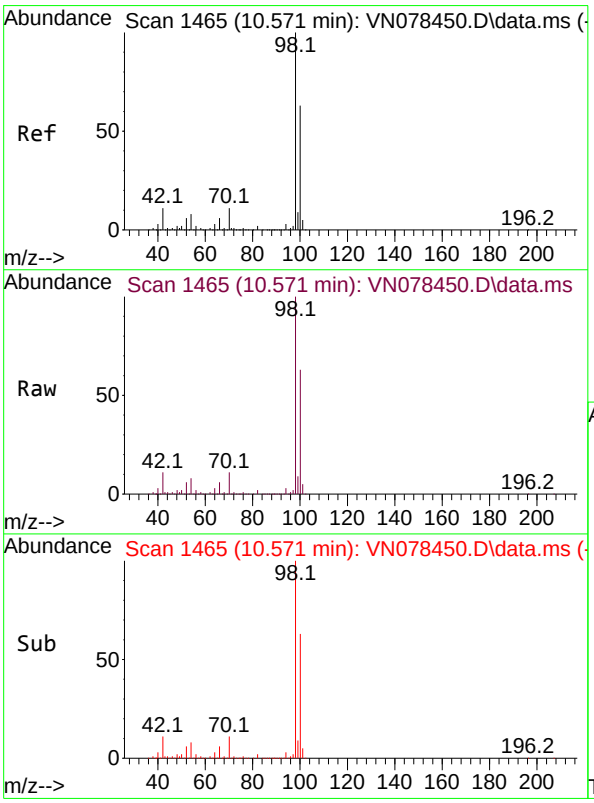
Ion	Ratio	Lower	Upper
88	100		
43	21.0	17.0	25.6
58	62.4	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

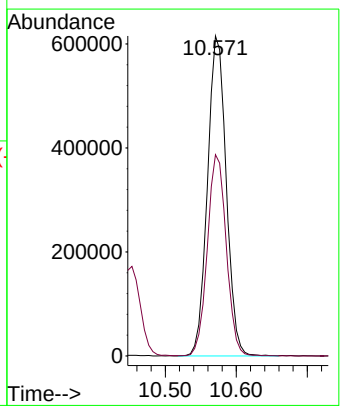
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

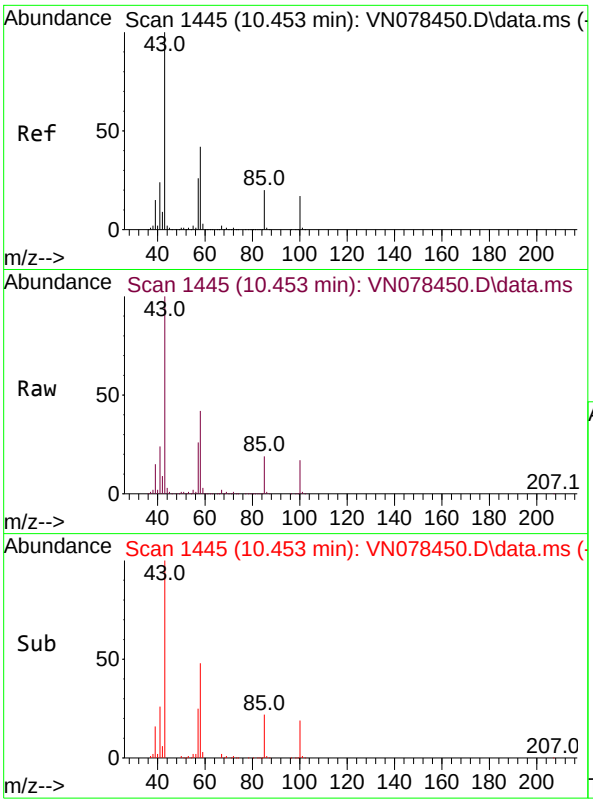


#50
Toluene-d8
Concen: 48.788 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 98 Resp: 1130269

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 256.271 ug/l
RT: 10.453 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

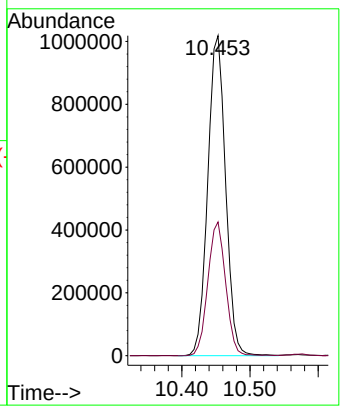
Tgt Ion: 43 Resp: 185247

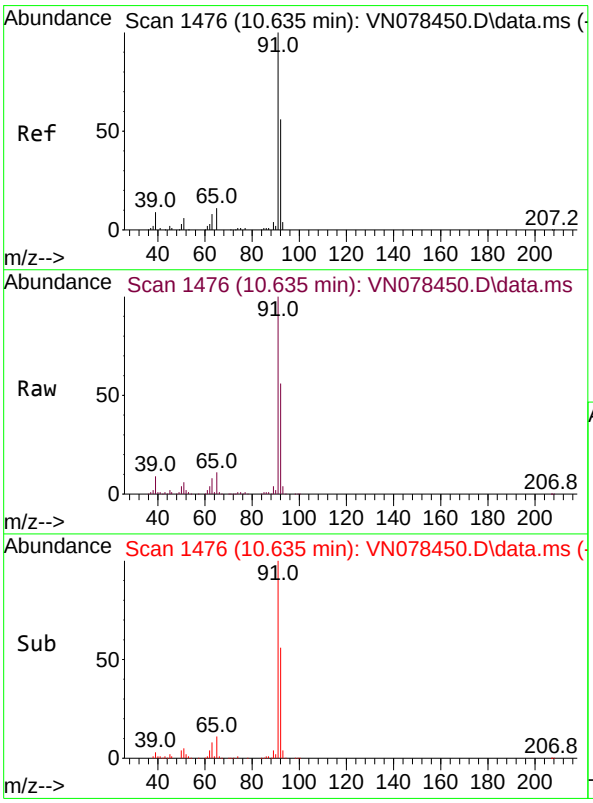
Ion	Ratio	Lower	Upper
43	100		
58	41.7	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

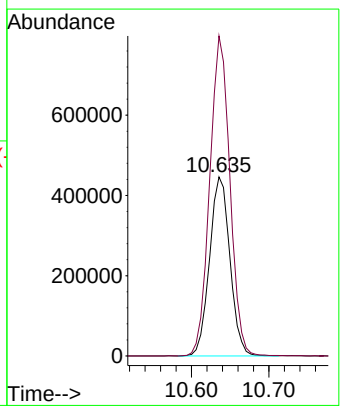


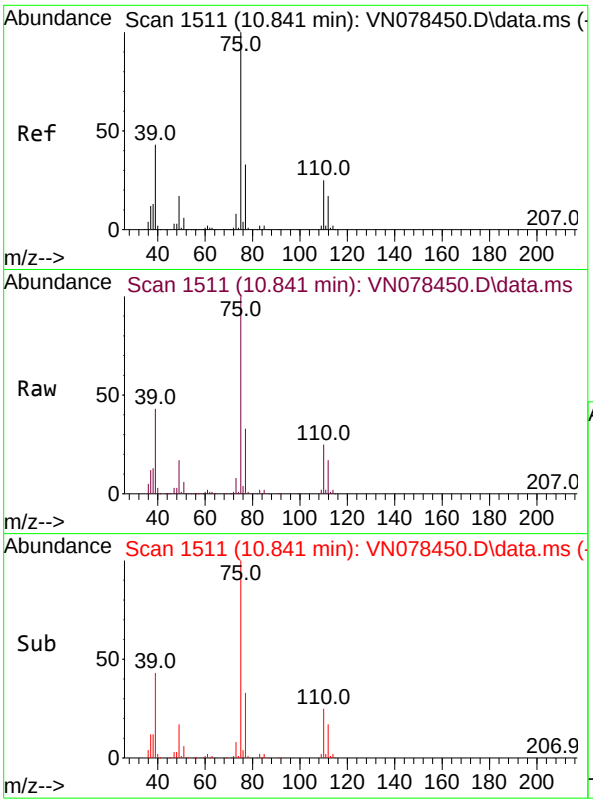


#52
Toluene
Concen: 50.115 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 92 Resp: 814804

Ion	Ratio	Lower	Upper
92	100		
91	177.2	137.4	206.0

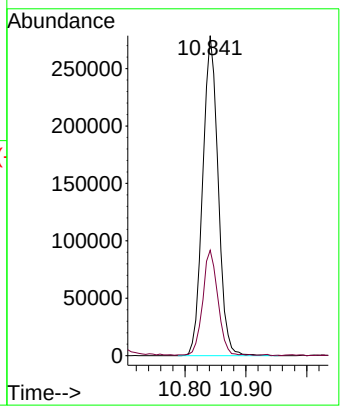




#53
t-1,3-Dichloropropene
Concen: 51.060 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 49035

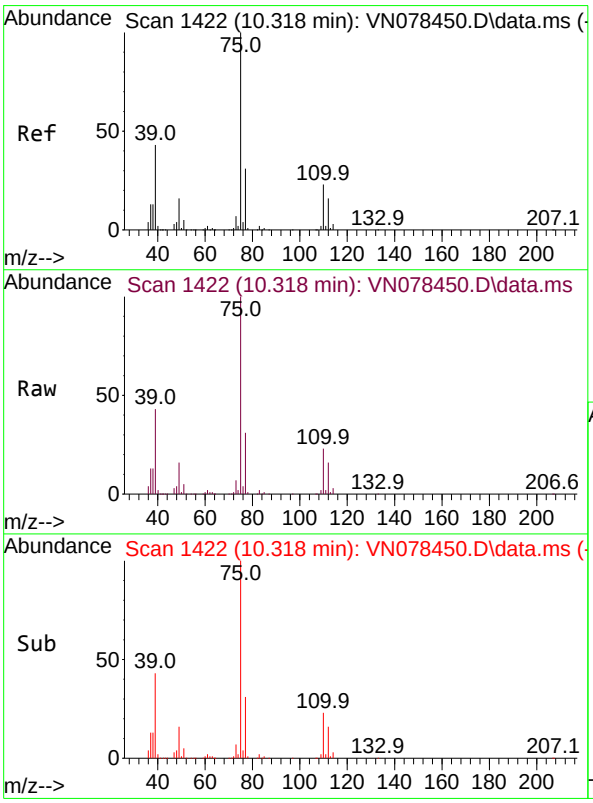
Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

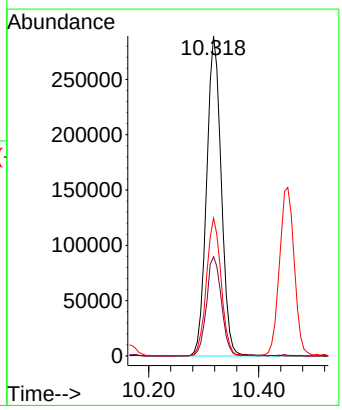
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

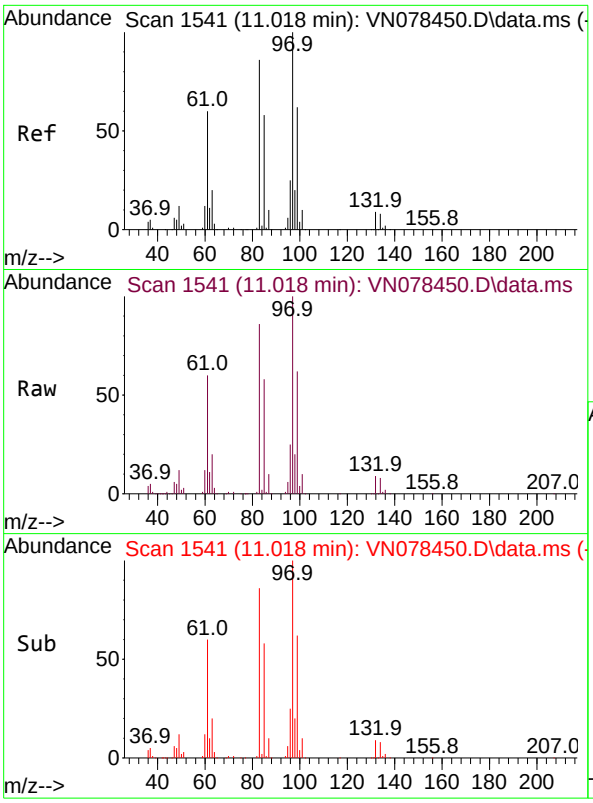


#54
cis-1,3-Dichloropropene
Concen: 52.134 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 533674

Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.1	39.1
39	43.0	31.6	47.4

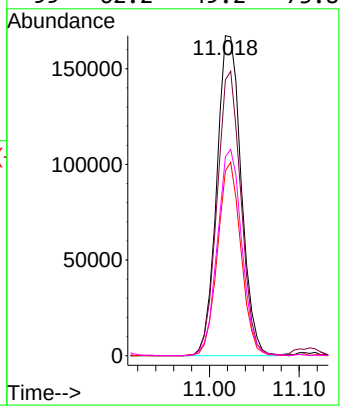




#55
1,1,2-Trichloroethane
Concen: 49.454 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 97 Resp: 31679

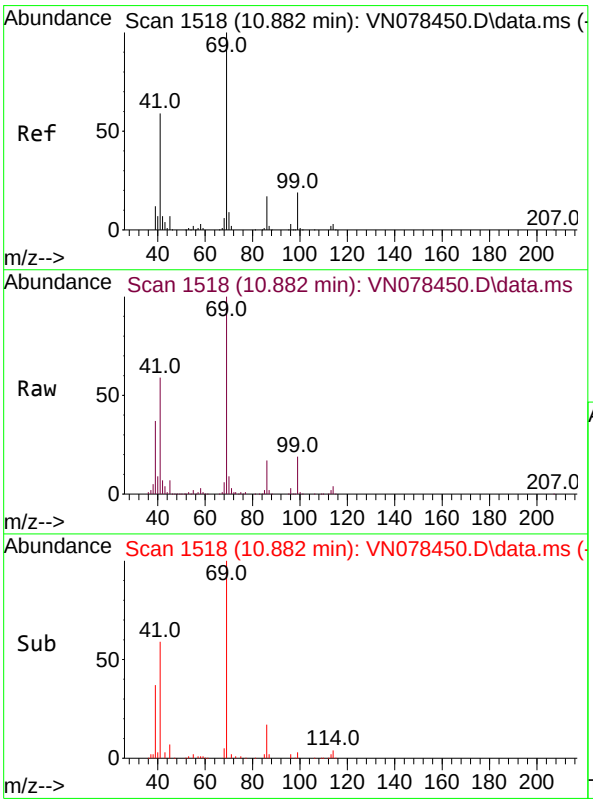
Ion	Ratio	Lower	Upper
97	100		
83	86.2	65.1	97.7
85	57.7	43.4	65.2
99	62.2	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

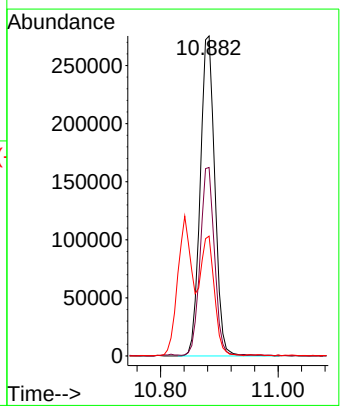
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

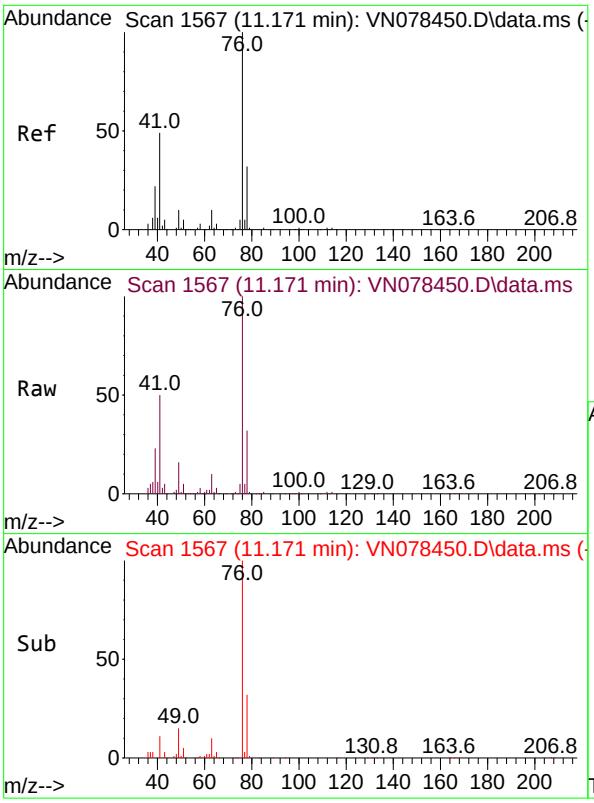


#56
Ethyl methacrylate
Concen: 53.191 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 69 Resp: 476305

Ion	Ratio	Lower	Upper
69	100		
41	57.4	39.6	59.4
39	36.4	28.6	43.0

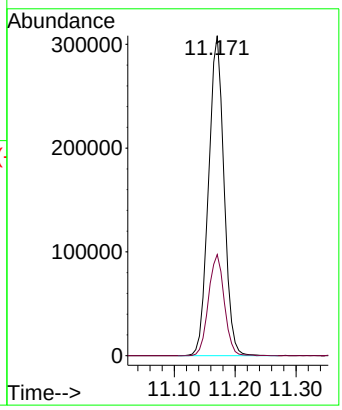




#57
1,3-Dichloropropane
Concen: 49.853 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 76 Resp: 54299

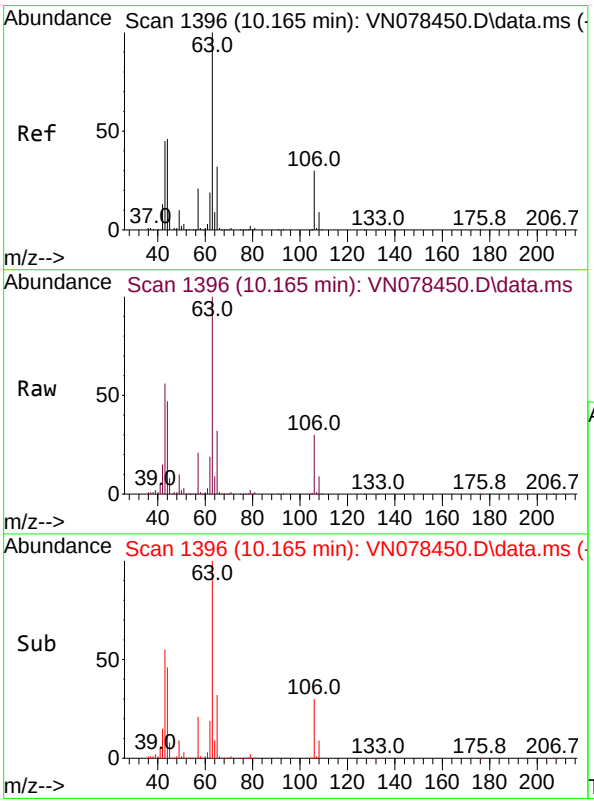
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

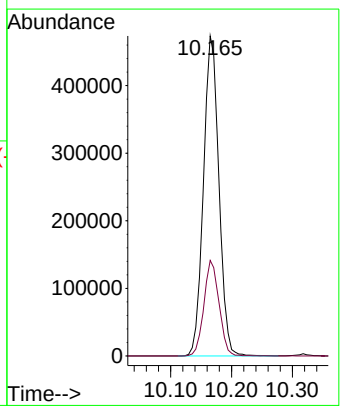
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

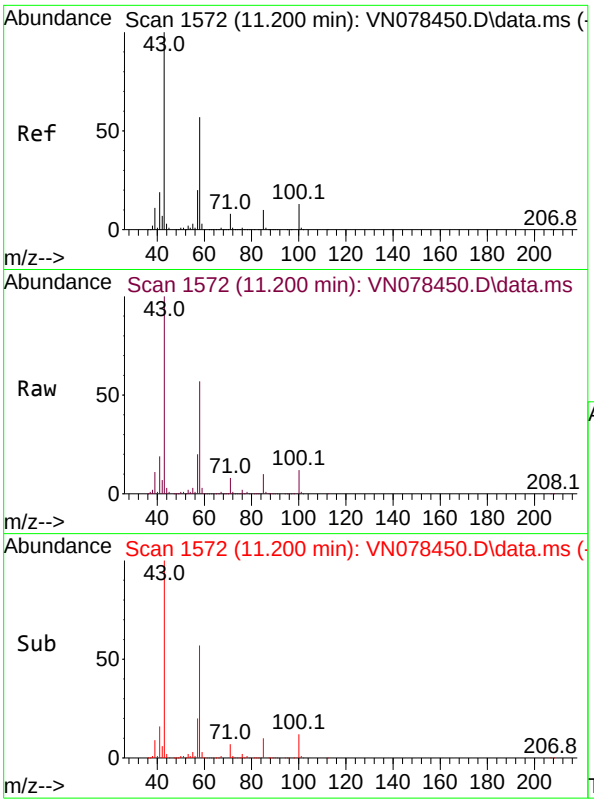


#58
2-Chloroethyl Vinyl ether
Concen: 261.951 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 63 Resp: 835934

Ion	Ratio	Lower	Upper
63	100		
106	29.2	26.2	39.4





#59
2-Hexanone
Concen: 261.771 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

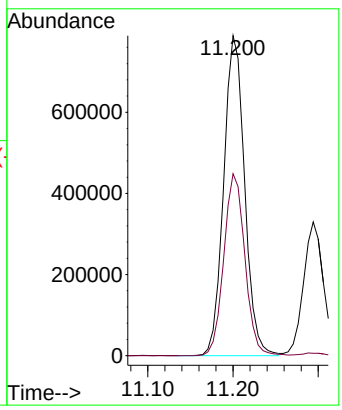
Tgt Ion: 43 Resp: 134483

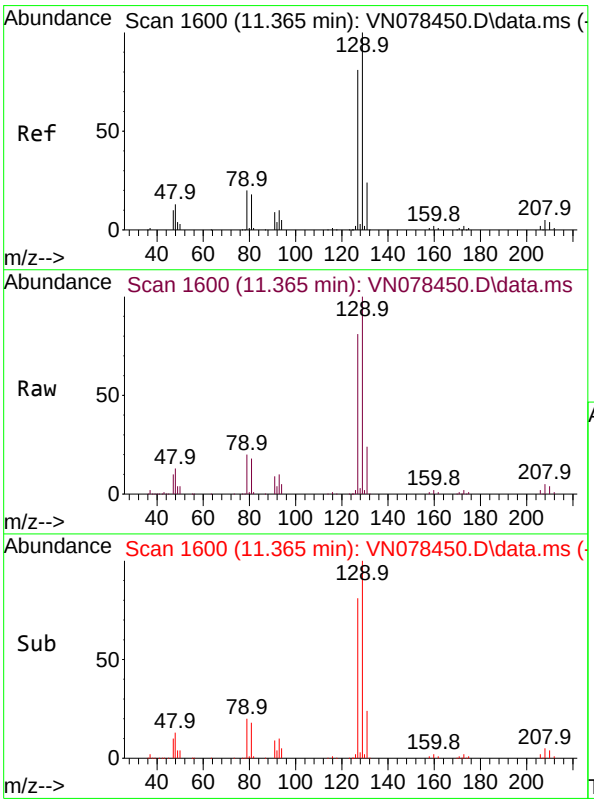
Ion	Ratio	Lower	Upper
43	100		
58	57.3	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

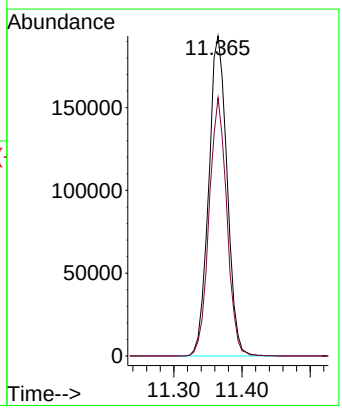


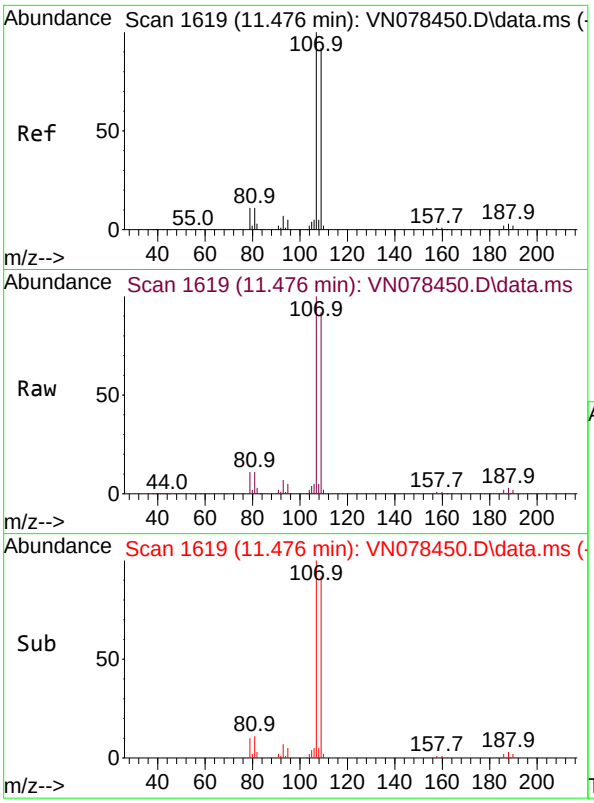


#60
Dibromochloromethane
Concen: 51.179 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:129 Resp: 361937

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	116.0

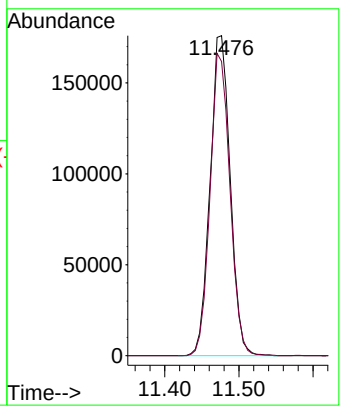




#61
1,2-Dibromoethane
Concen: 50.336 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:107 Resp: 33216

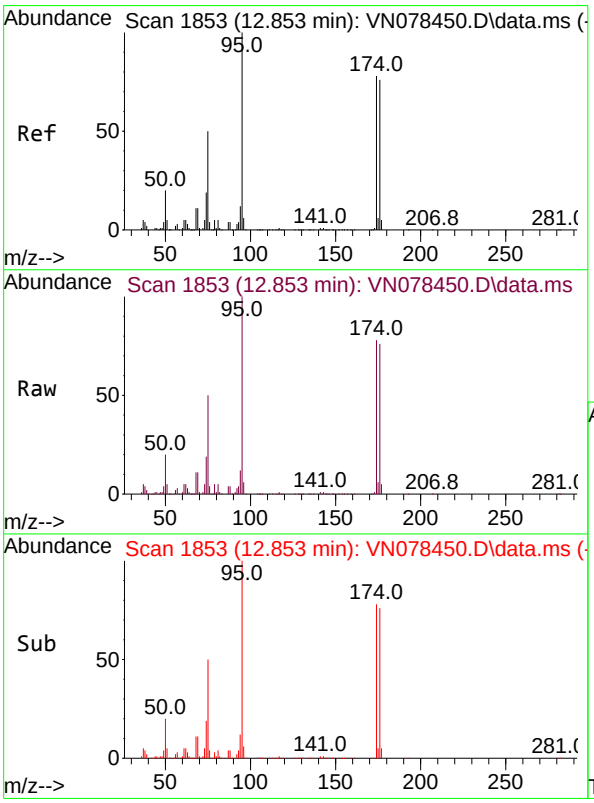
Ion	Ratio	Lower	Upper
107	100		
109	93.1	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

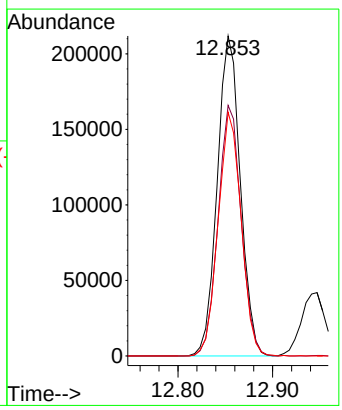
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

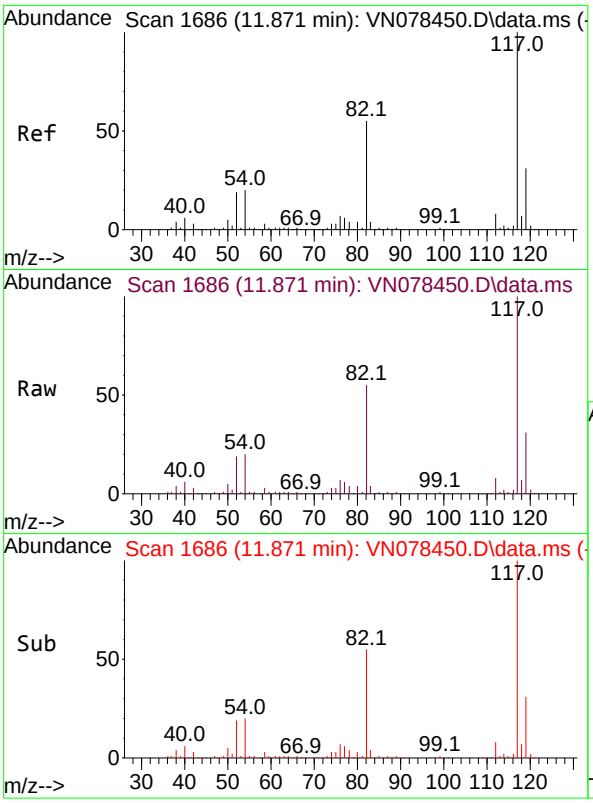


#62
4-Bromofluorobenzene
Concen: 50.296 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 95 Resp: 358906

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	143.8
176	75.9	0.0	135.8

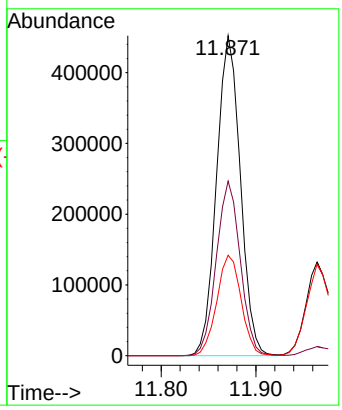




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:117 Resp: 79164

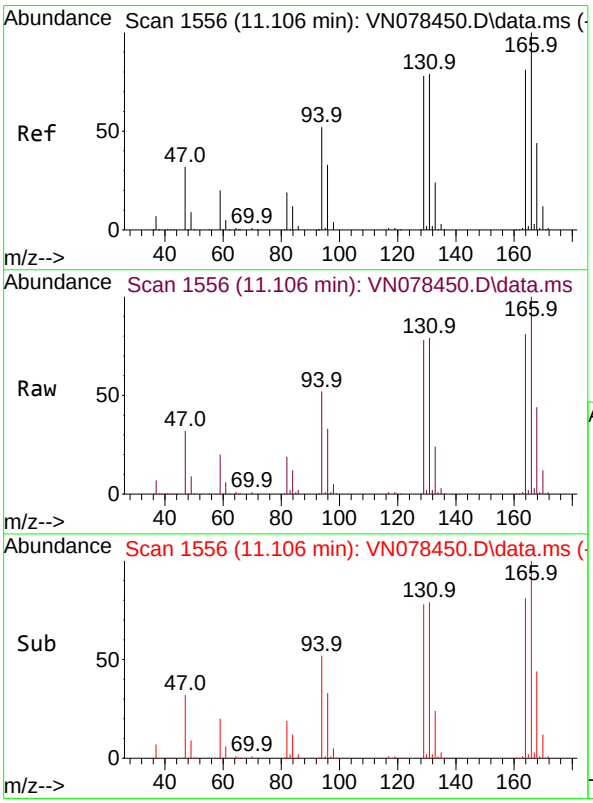
Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.0	66.0
119	31.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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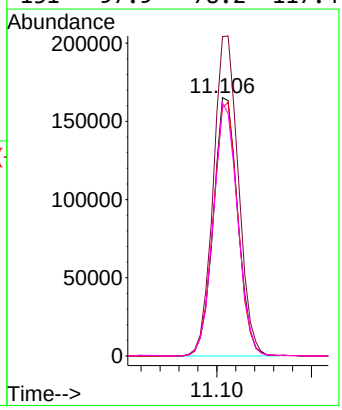
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

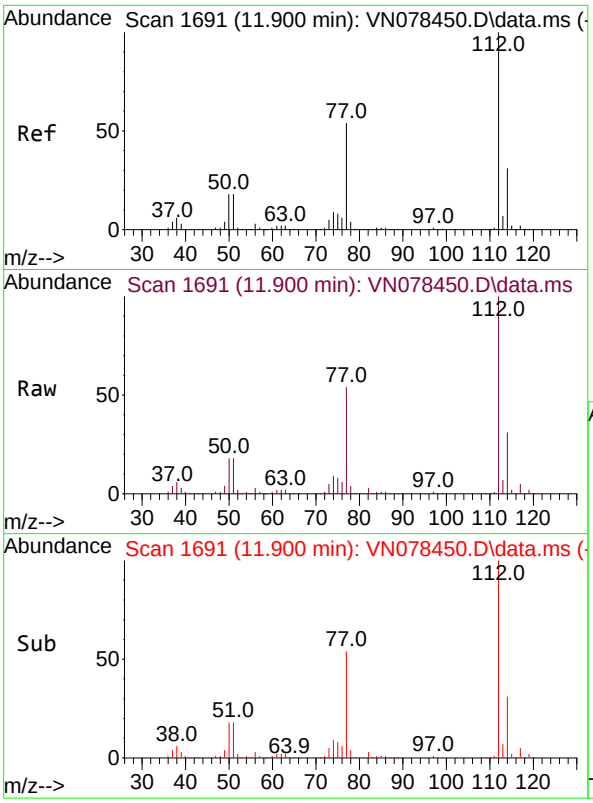


#64
Tetrachloroethene
Concen: 49.646 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:164 Resp: 295482

Ion	Ratio	Lower	Upper
164	100		
166	123.6	101.4	152.0
129	96.2	82.4	123.6
131	97.9	78.2	117.4

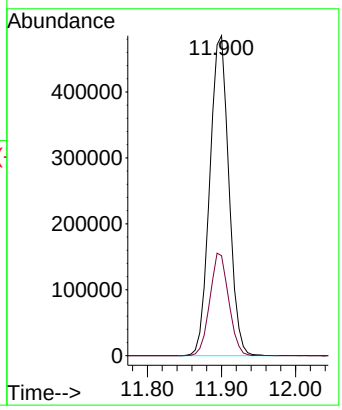




#65
Chlorobenzene
Concen: 48.995 ug/l
RT: 11.900 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:112 Resp: 86697

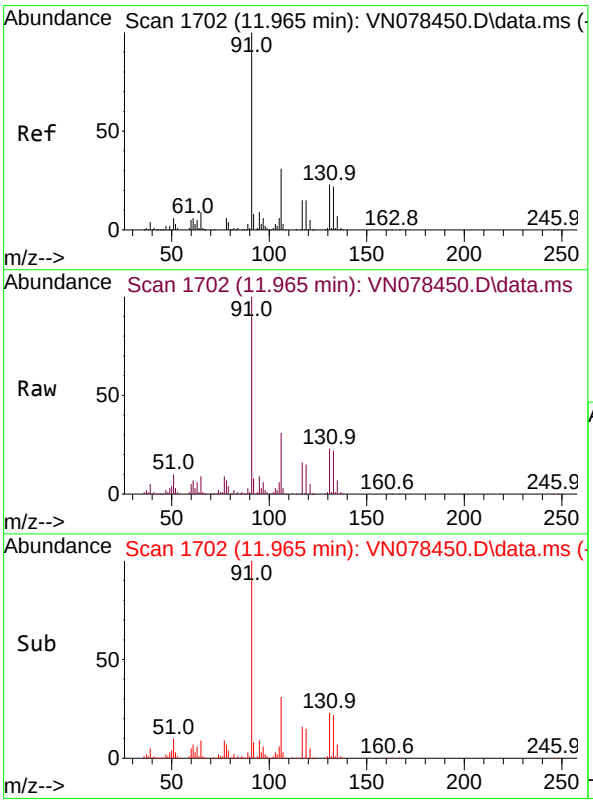
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

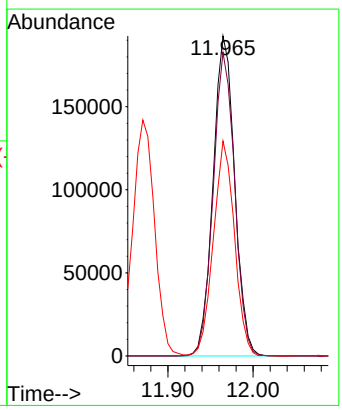
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

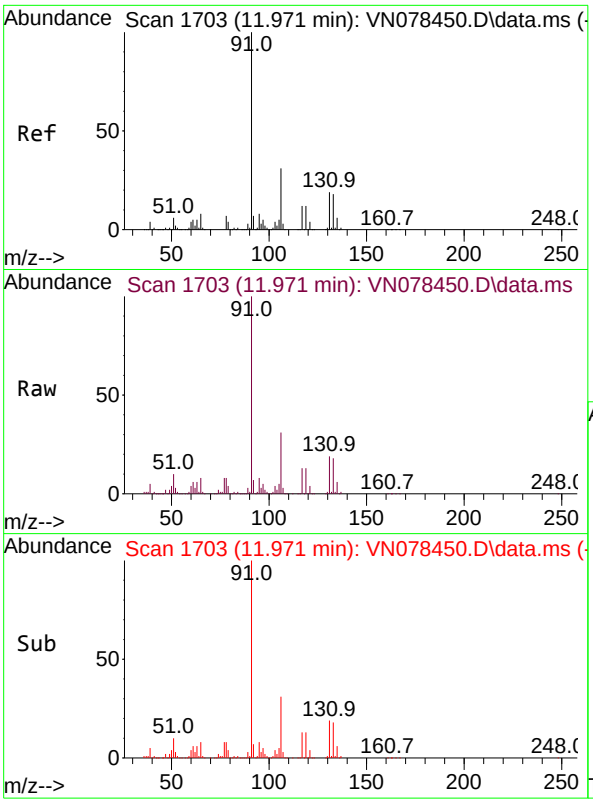


#66
1,1,1,2-Tetrachloroethane
Concen: 49.815 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:131 Resp: 339102

Ion	Ratio	Lower	Upper
131	100		
133	94.4	46.4	139.1
119	65.8	34.1	102.2

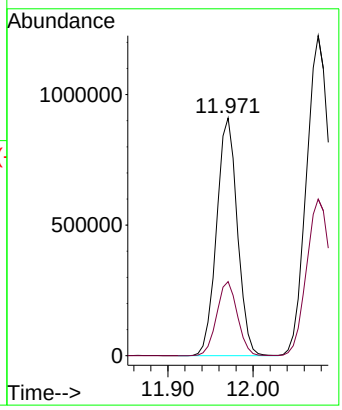




#67
Ethyl Benzene
Concen: 51.469 ug/l
RT: 11.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 91 Resp: 153946

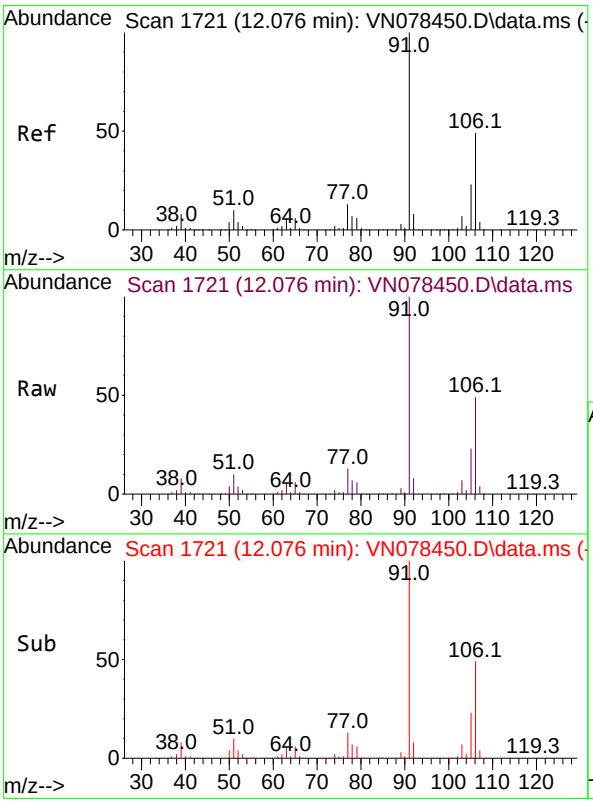
Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

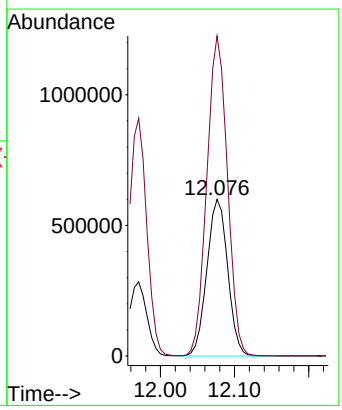
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

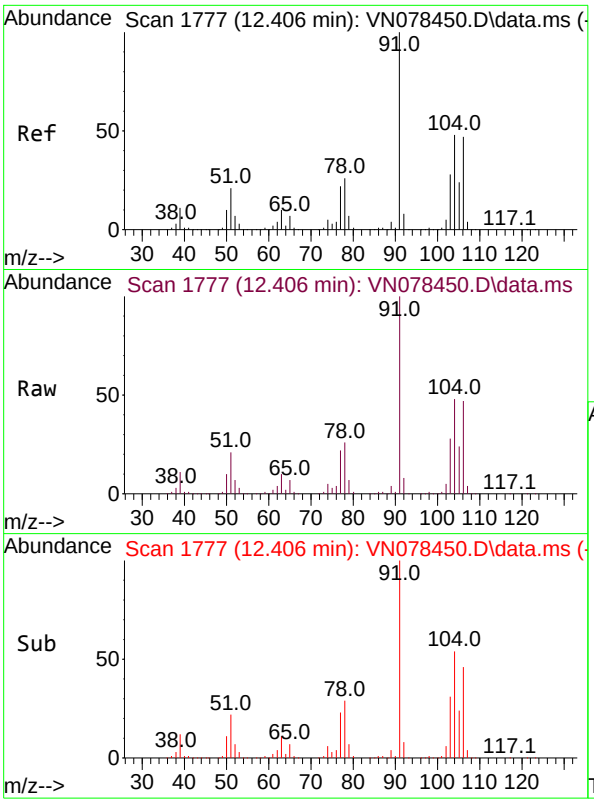


#68
m/p-Xylenes
Concen: 105.581 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:106 Resp: 1167599

Ion	Ratio	Lower	Upper
106	100		
91	202.7	159.6	239.4

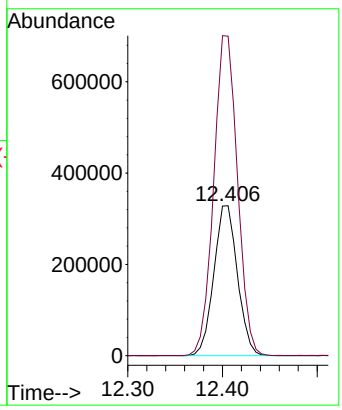




#69
o-Xylene
Concen: 50.921 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:106 Resp: 56879

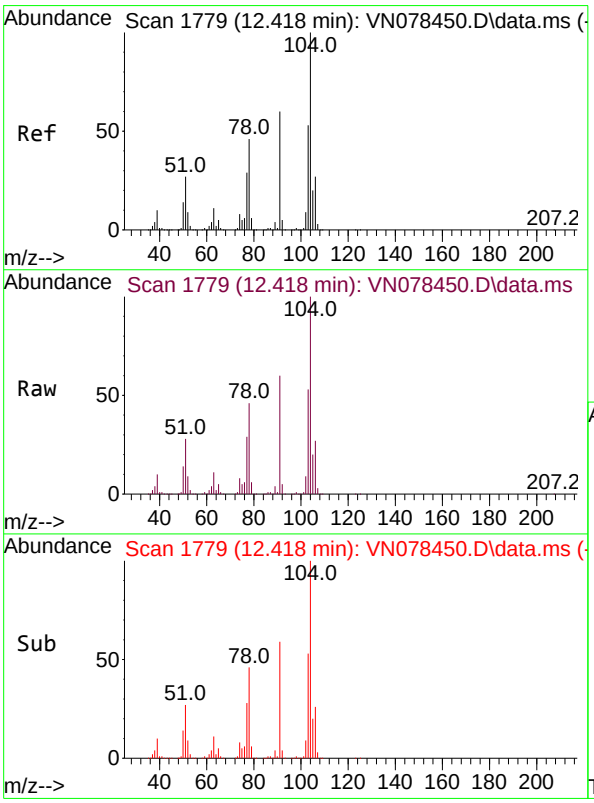
Ion	Ratio	Lower	Upper
106	100		
91	215.7	105.2	315.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

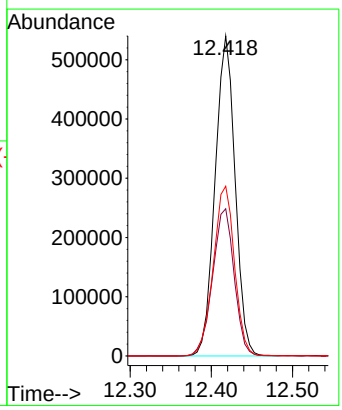
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

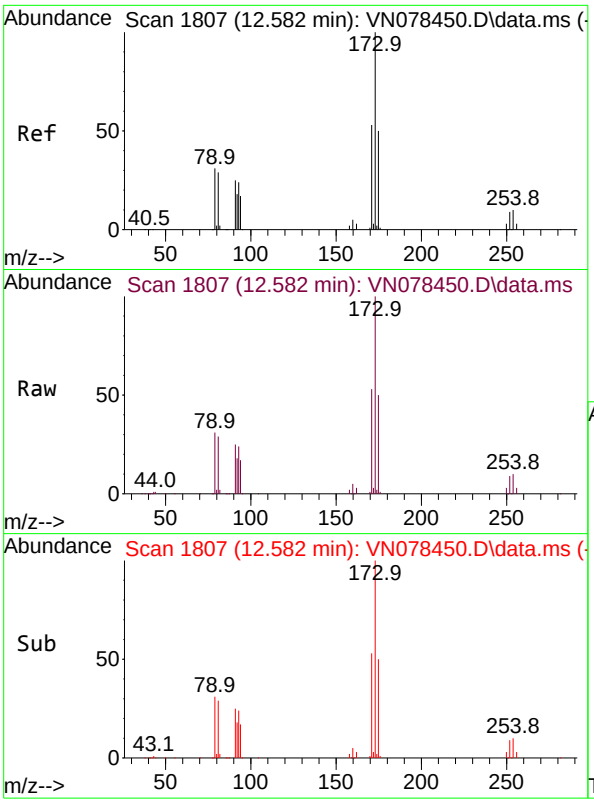


#70
Styrene
Concen: 53.009 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:104 Resp: 926334

Ion	Ratio	Lower	Upper
104	100		
78	49.6	39.5	59.3
103	56.4	43.2	64.8

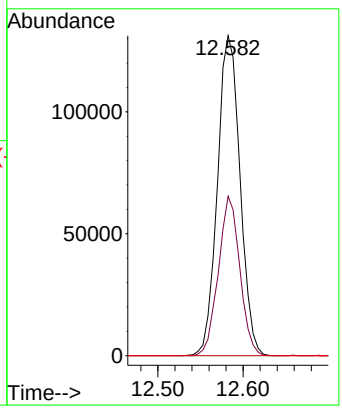




#71
Bromoform
Concen: 52.464 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:173 Resp: 24187

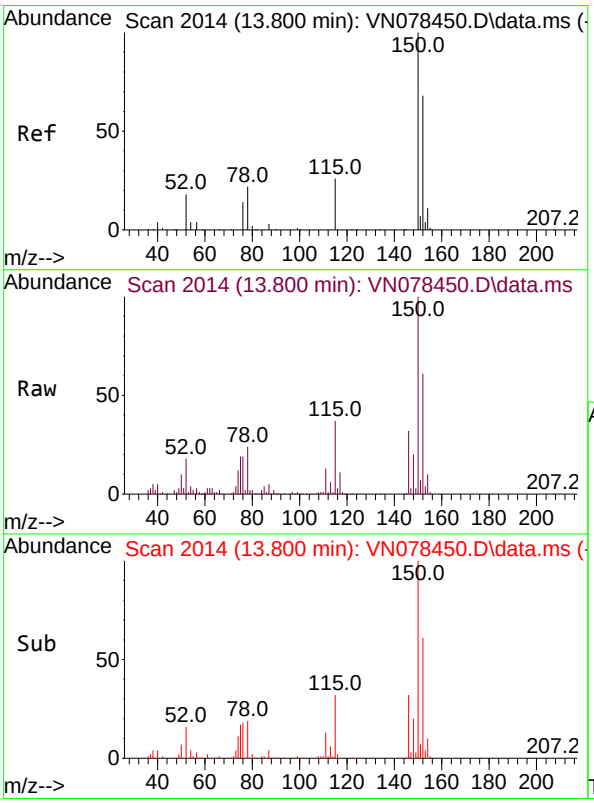
Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

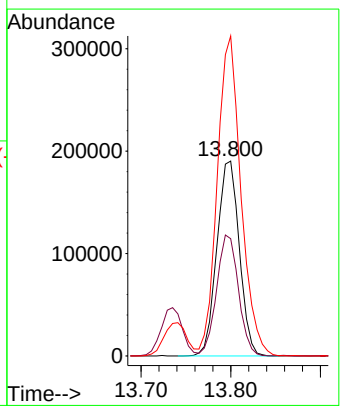
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

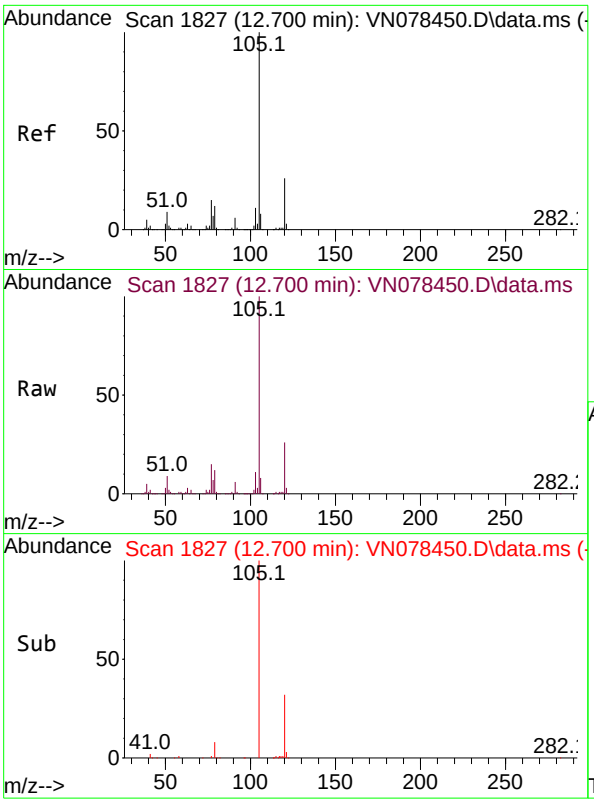


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:152 Resp: 329469

Ion	Ratio	Lower	Upper
152	100		
115	60.4	32.3	96.8
150	173.4	0.0	355.8

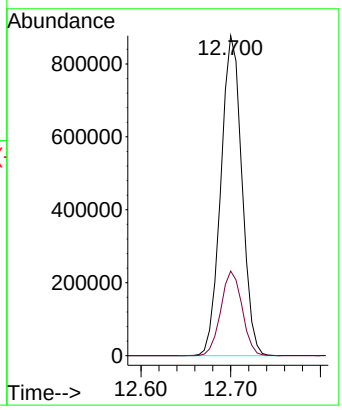




#73
Isopropylbenzene
Concen: 46.181 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:105 Resp: 142969

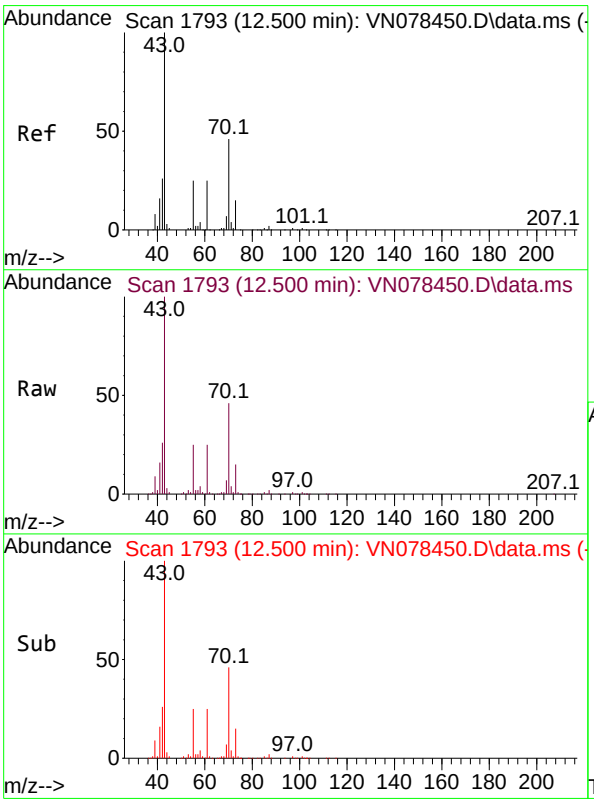
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

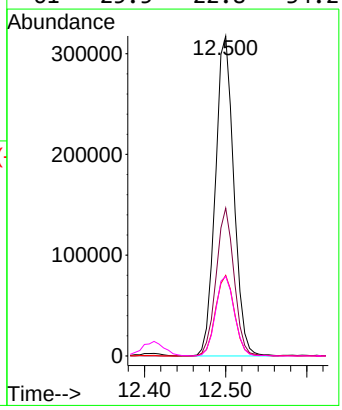
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

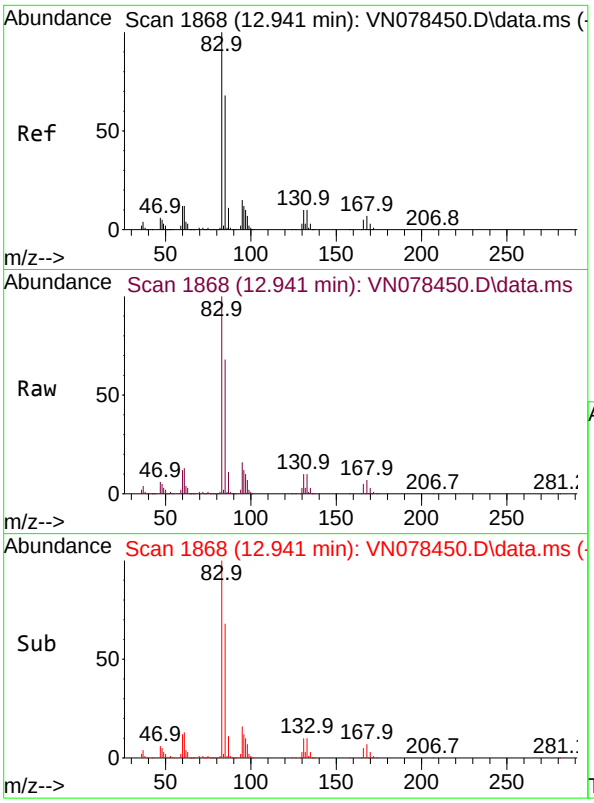


#74
N-amyl acetate
Concen: 47.043 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 43 Resp: 501898

Ion	Ratio	Lower	Upper
43	100		
70	45.0	43.4	65.2
55	25.8	21.4	32.0
61	25.5	22.8	34.2

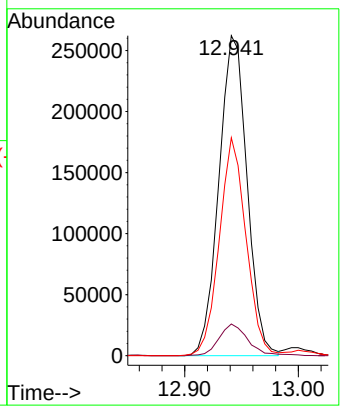




#75
1,1,2,2-Tetrachloroethane
Concen: 52.351 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 83 Resp: 45141

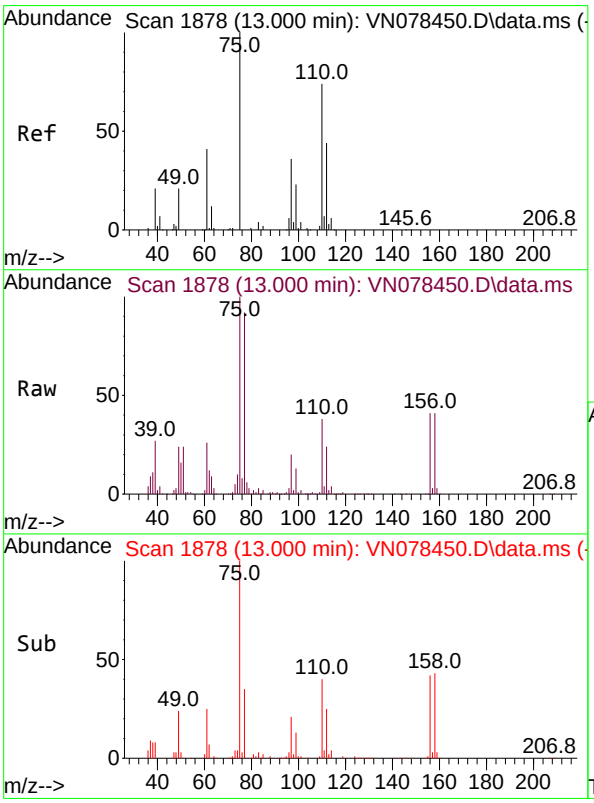
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.7	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

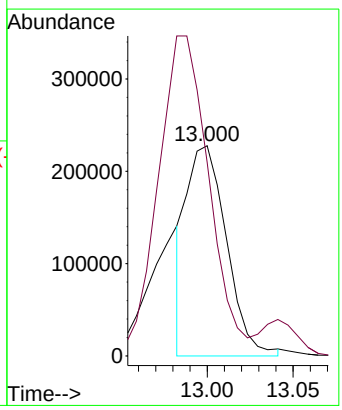
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

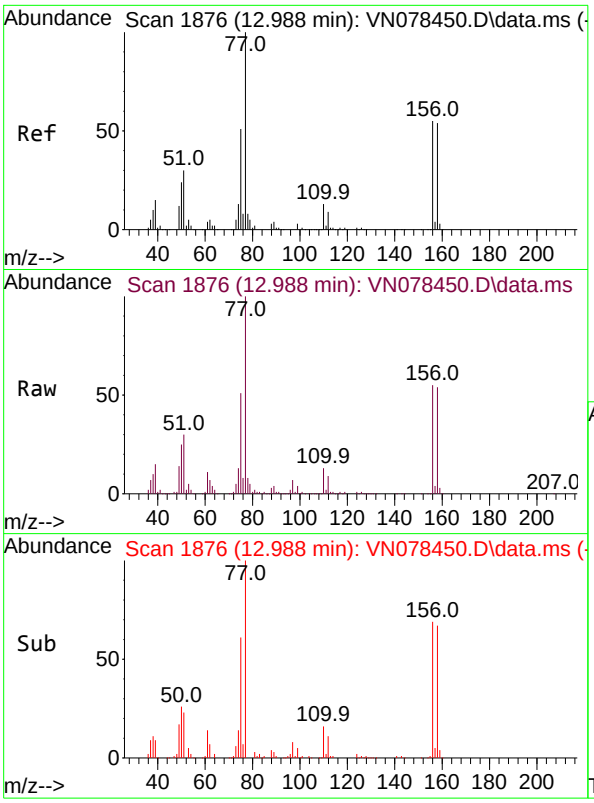


#76
1,2,3-Trichloropropane
Concen: 46.134 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 366977

Ion	Ratio	Lower	Upper
75	100		
77	193.8	84.5	253.5

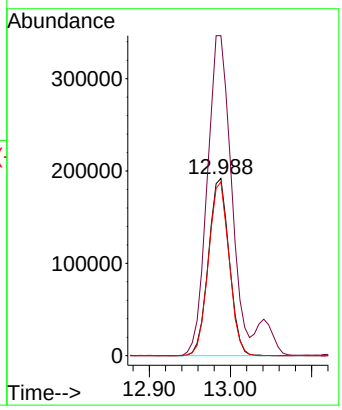




#77
Bromobenzene
Concen: 50.662 ug/l
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:156 Resp: 34093

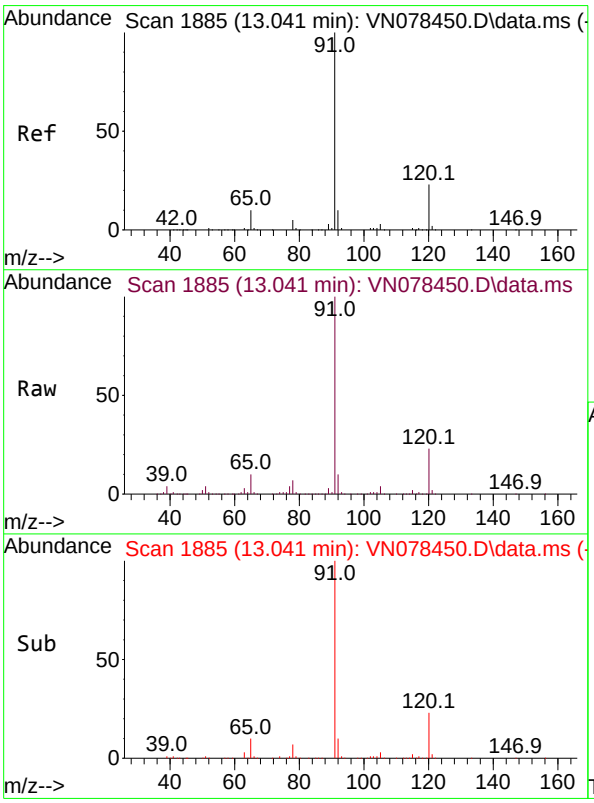
Ion	Ratio	Lower	Upper
156	100		
77	208.6	107.7	323.3
158	97.3	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

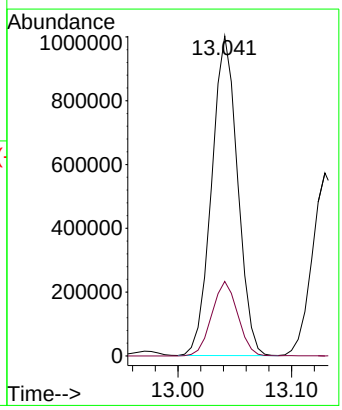
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

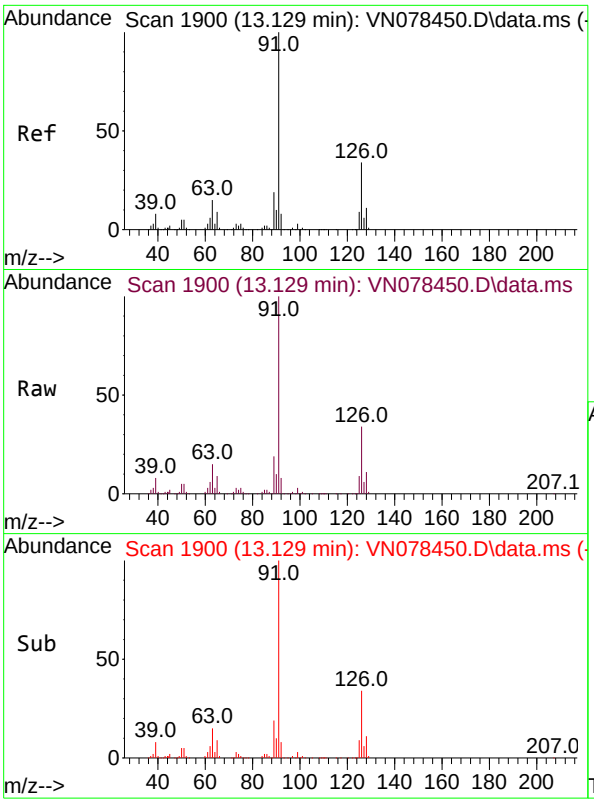


#78
n-propylbenzene
Concen: 48.003 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 91 Resp: 1589295

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4

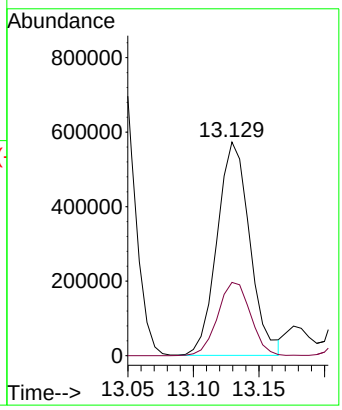




#79
2-Chlorotoluene
Concen: 45.832 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 91 Resp: 99393

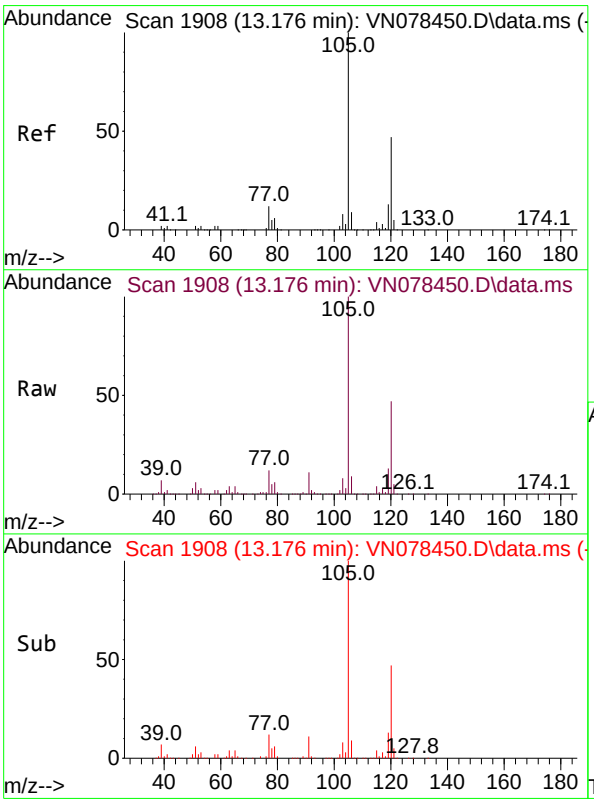
Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

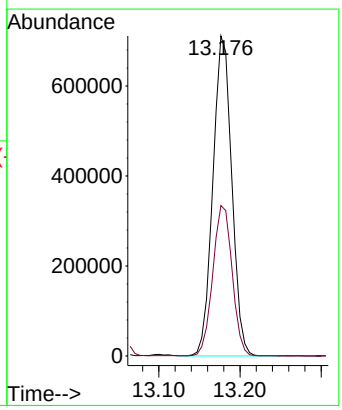
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

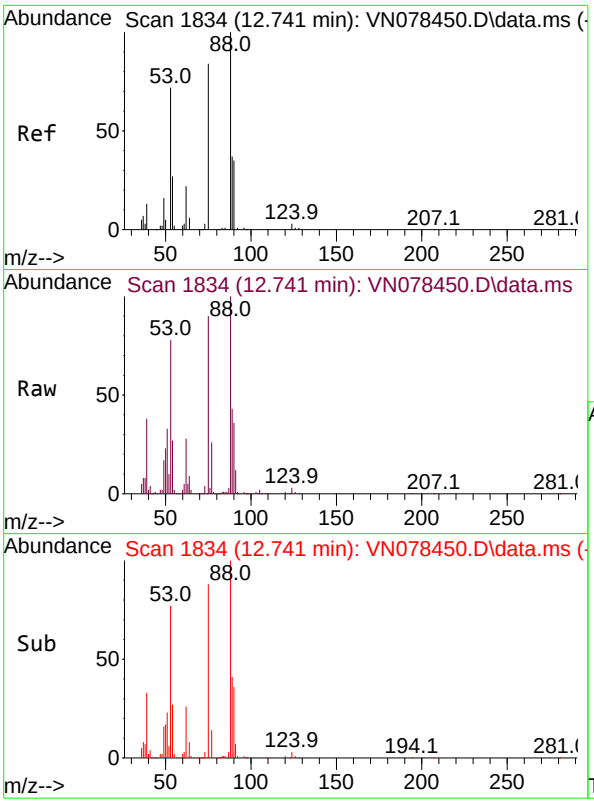


#80
1,3,5-Trimethylbenzene
Concen: 46.955 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:105 Resp: 1148553

Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.1	72.3

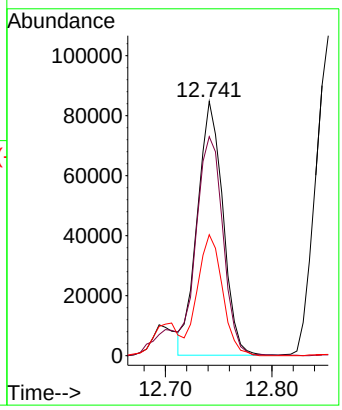




#81
trans-1,4-Dichloro-2-butene
Concen: 46.712 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 14156

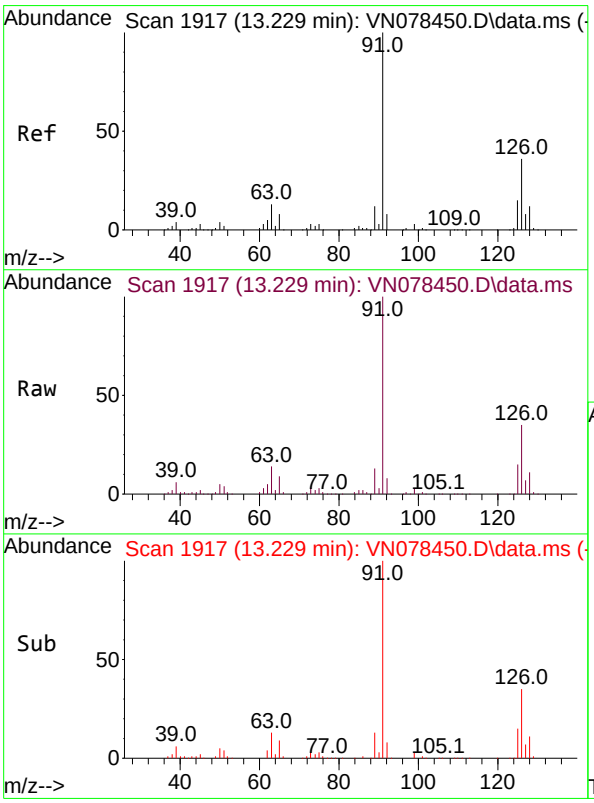
Ion	Ratio	Lower	Upper
75	100		
53	101.1	67.4	101.2
89	46.1	38.8	58.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

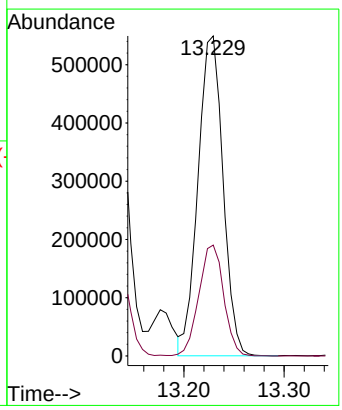
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

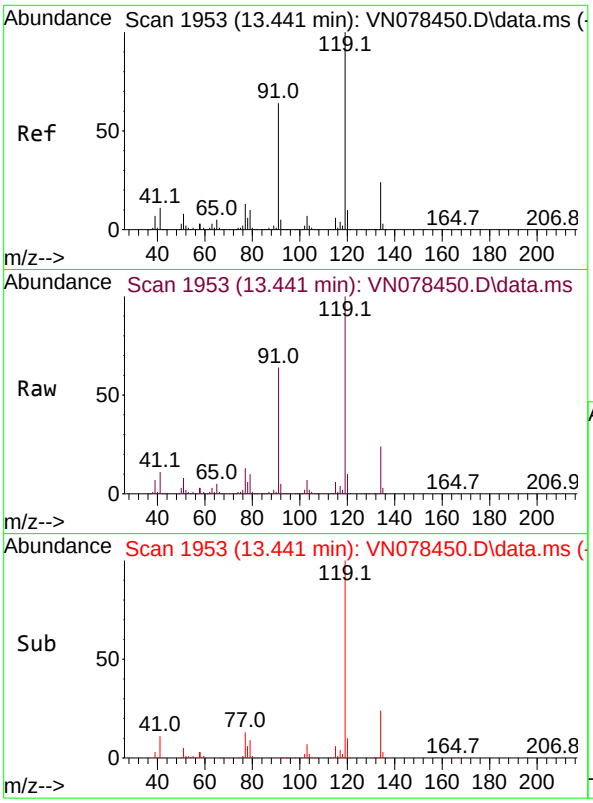


#82
4-Chlorotoluene
Concen: 47.054 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 91 Resp: 951921

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.7	50.0

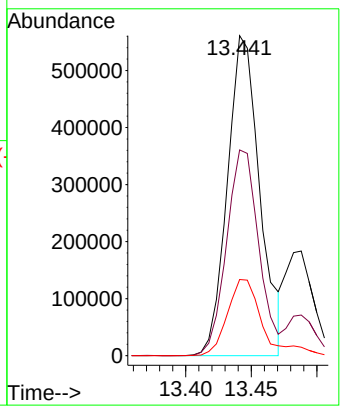




#83
tert-Butylbenzene
Concen: 46.459 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:119 Resp: 96483

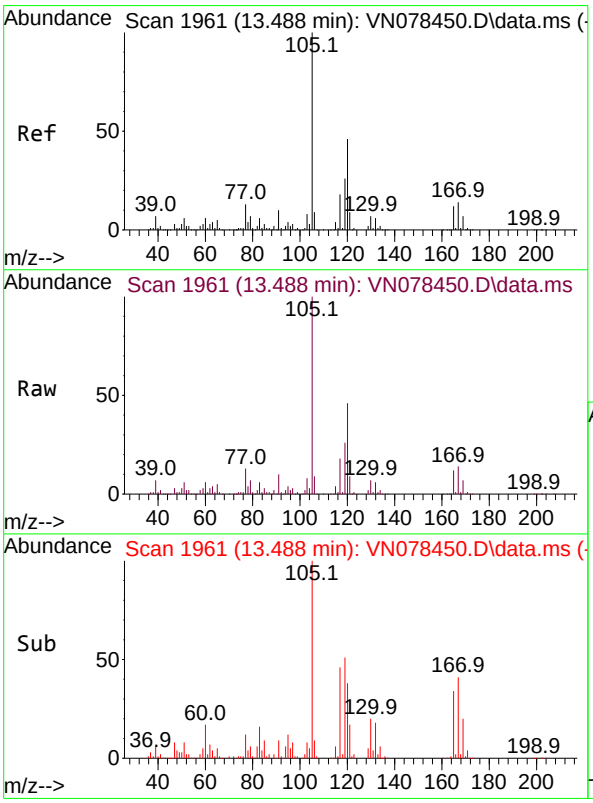
Ion	Ratio	Lower	Upper
119	100		
91	64.0	33.9	101.7
134	25.8	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

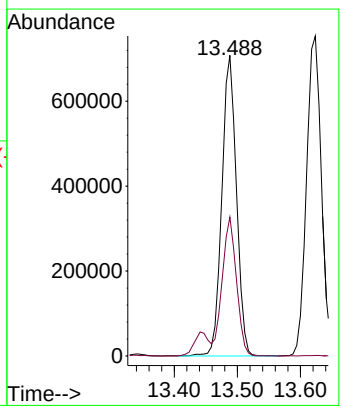
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

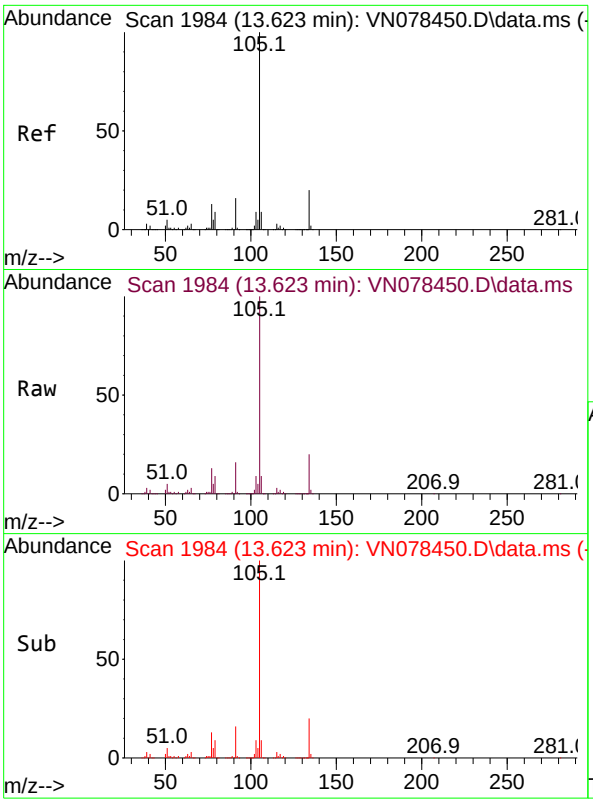


#84
1,2,4-Trimethylbenzene
Concen: 47.696 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:105 Resp: 1133229

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.0	66.0

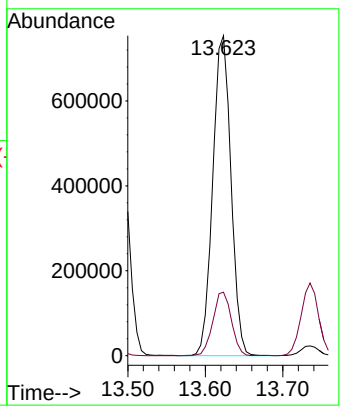




#85
sec-Butylbenzene
Concen: 46.853 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:105 Resp: 122988

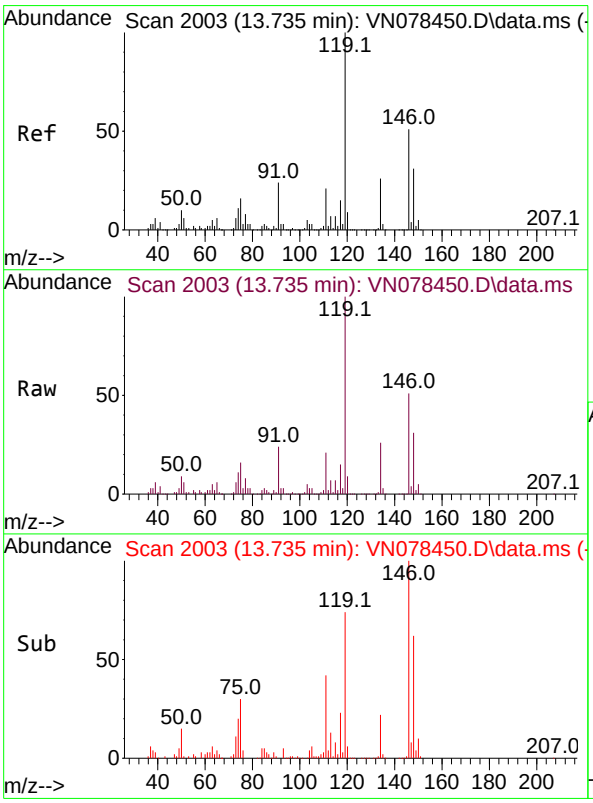
Ion	Ratio	Lower	Upper
105	100		
134	20.3	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

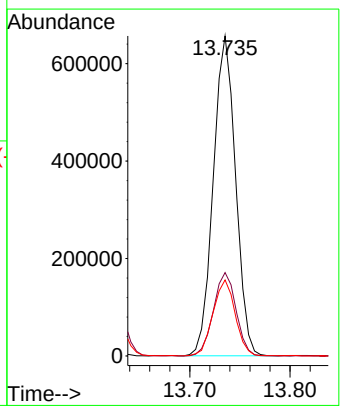
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

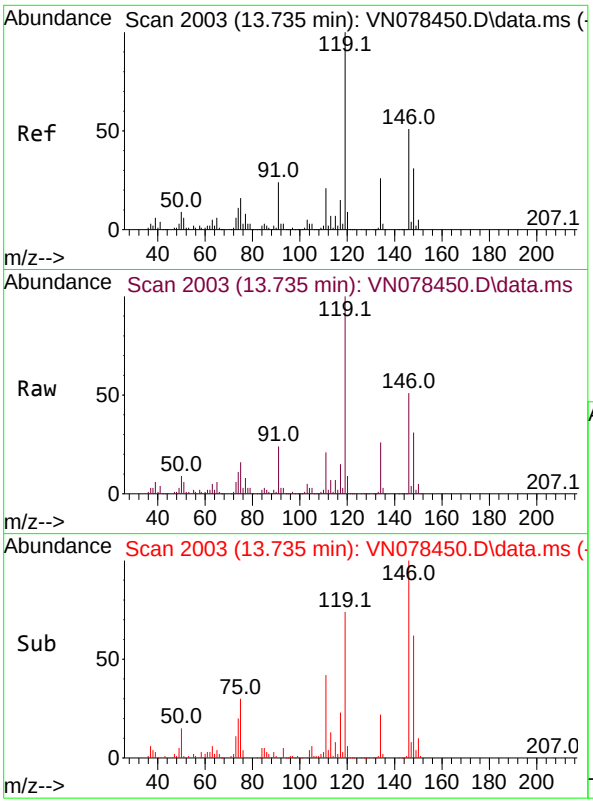


#86
p-Isopropyltoluene
Concen: 48.131 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:119 Resp: 1014504

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.6	37.8
91	23.6	12.4	37.2

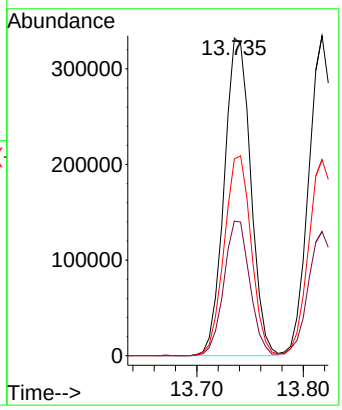




#87
1,3-Dichlorobenzene
Concen: 48.403 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:146 Resp: 57525

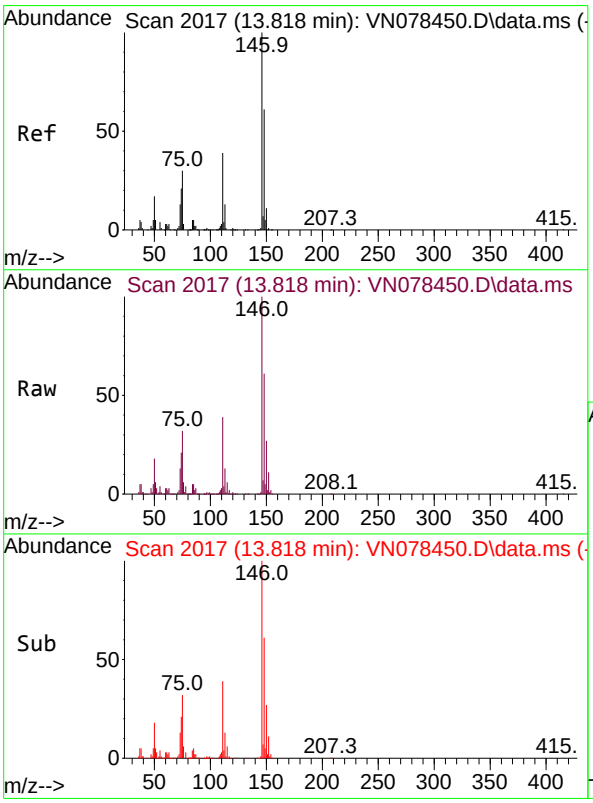
Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.1	66.3
148	64.1	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

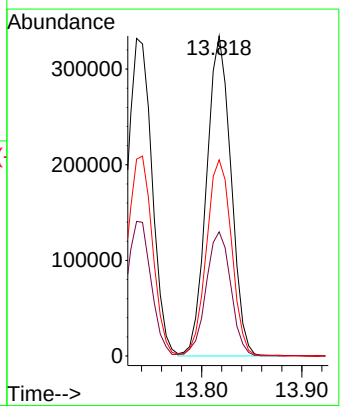
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

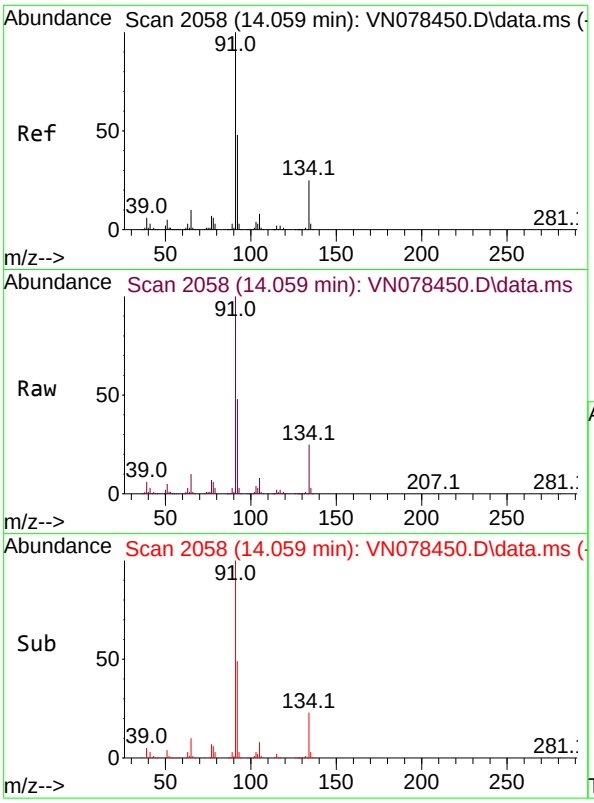


#88
1,4-Dichlorobenzene
Concen: 47.430 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:146 Resp: 567782

Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.6	61.8
148	62.6	31.6	94.8

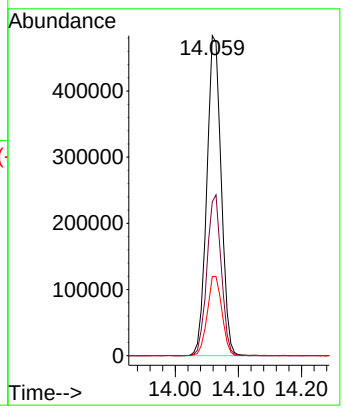




#89
n-Butylbenzene
Concen: 50.723 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 91 Resp: 7649

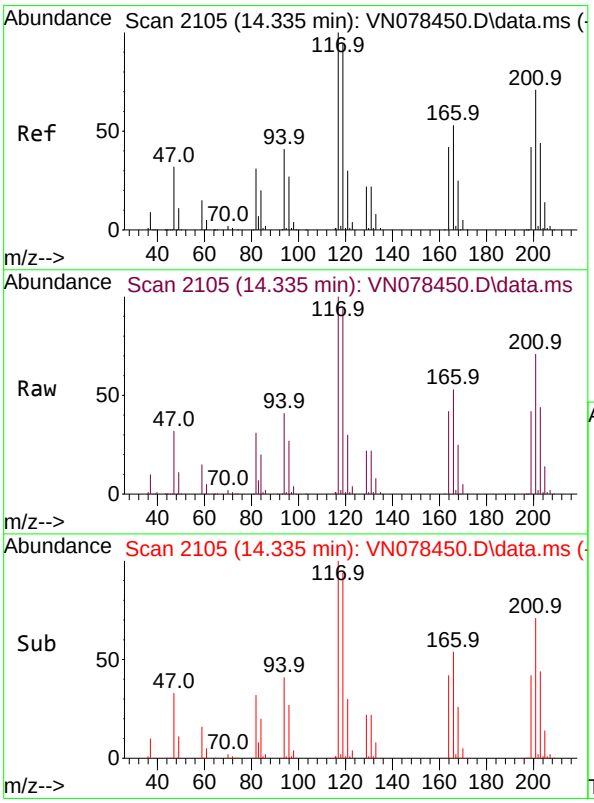
Ion	Ratio	Lower	Upper
91	100		
92	50.1	26.4	79.0
134	25.2	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

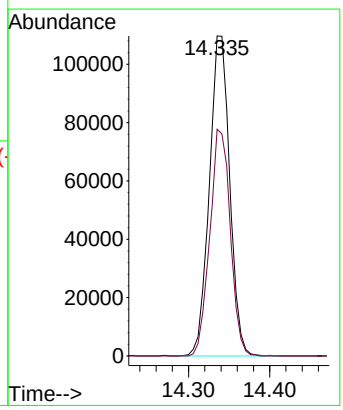
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

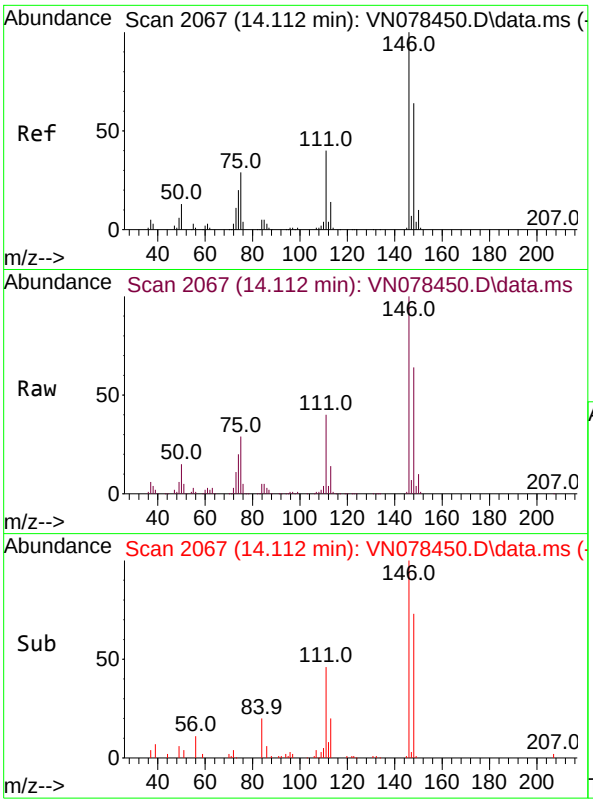


#90
Hexachloroethane
Concen: 49.287 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:117 Resp: 190986

Ion	Ratio	Lower	Upper
117	100		
201	71.2	29.3	88.0

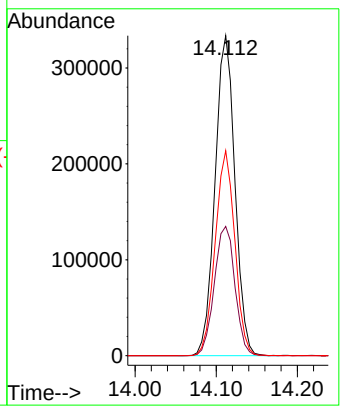




#91
1,2-Dichlorobenzene
Concen: 48.027 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:146 Resp: 56803

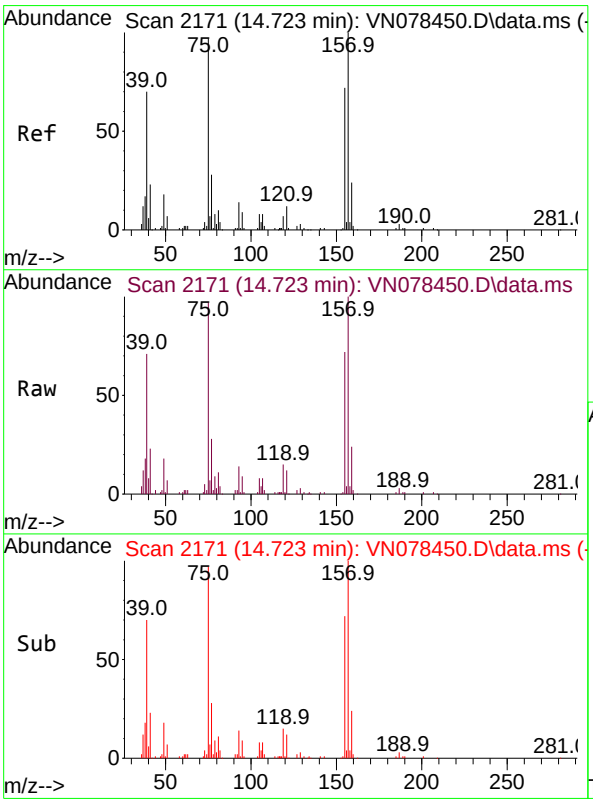
Ion	Ratio	Lower	Upper
146	100		
111	42.0	22.0	66.0
148	63.2	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

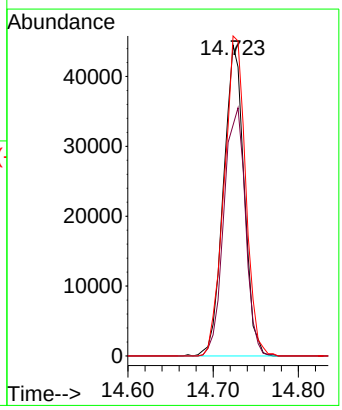
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

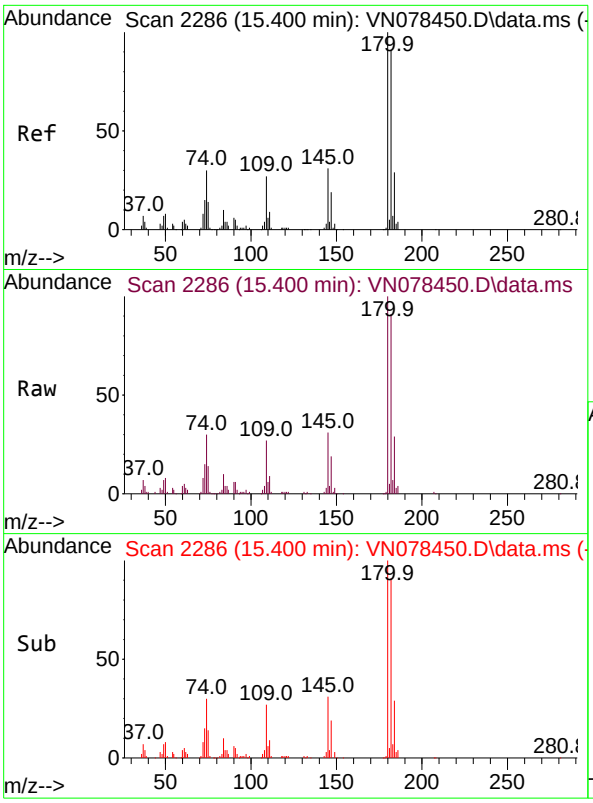


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.514 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion: 75 Resp: 74837

Ion	Ratio	Lower	Upper
75	100		
155	83.5	39.1	117.2
157	107.3	50.3	150.9

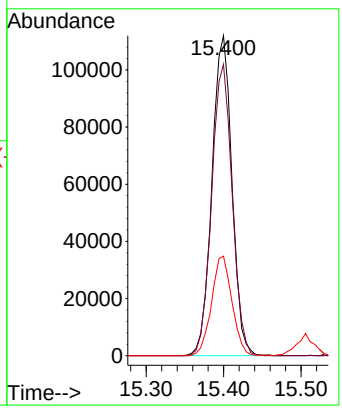




#93
1,2,4-Trichlorobenzene
Concen: 53.177 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:180 Resp: 20073

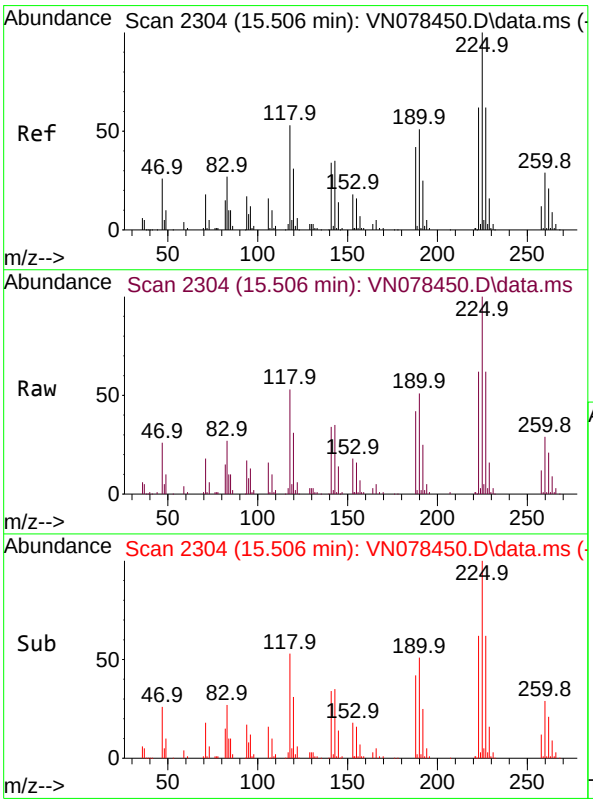
Ion	Ratio	Lower	Upper
180	100		
182	93.3	46.1	138.2
145	31.8	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

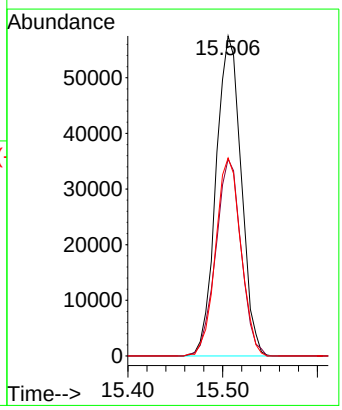
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

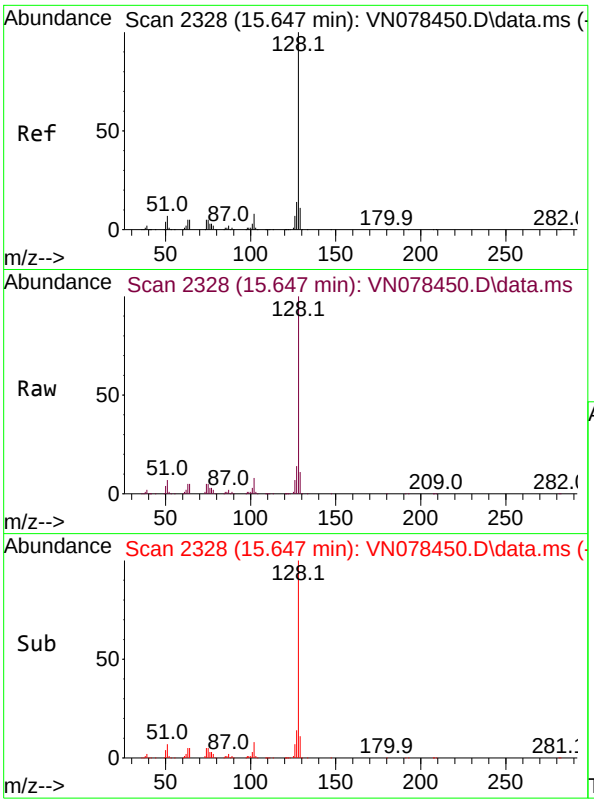


#94
Hexachlorobutadiene
Concen: 54.749 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:225 Resp: 106143

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.3	93.8
227	62.0	31.9	95.9

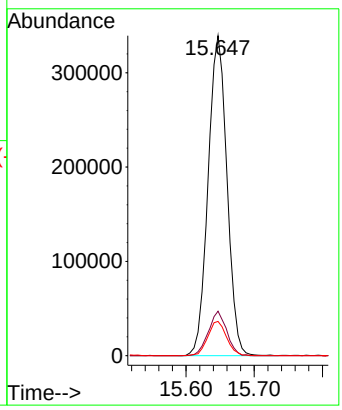




#95
Naphthalene
Concen: 50.666 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:128 Resp: 65382

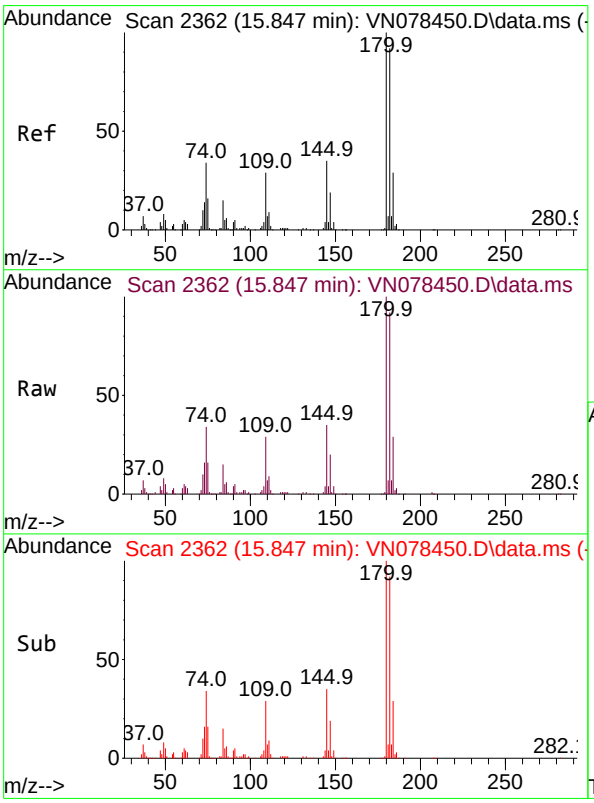
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.0	15.0
129	10.7	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

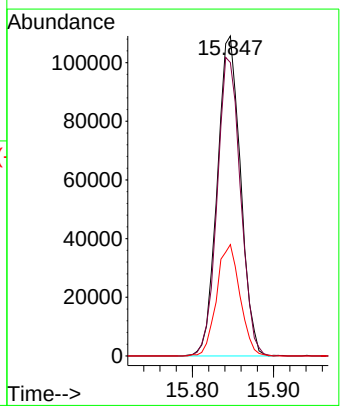
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 50.092 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078450.D
Acq: 10 Jul 2023 12:46

Tgt Ion:180 Resp: 217418

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.2	138.6
145	34.9	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078451.D
Acq On : 10 Jul 2023 13:10
Operator : JC\MD
Sample : VSTDICC040
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 15:54:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	497495	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	863649	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	759512	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	317914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	261346	39.186	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 78.380%			
35) Dibromofluoromethane	8.171	113	227856	38.865	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 77.740%			
50) Toluene-d8	10.571	98	861588	38.902	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 77.800%#			
62) 4-Bromofluorobenzene	12.853	95	270837	39.701	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 79.400%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	242491	39.755	ug/l	97
3) Chloromethane	2.371	50	259063	39.076	ug/l	95
4) Vinyl Chloride	2.518	62	320248	37.342	ug/l	98
5) Bromomethane	2.953	94	233040	42.183	ug/l	93
6) Chloroethane	3.124	64	208323	39.762	ug/l	96
7) Trichlorofluoromethane	3.500	101	395288	38.558	ug/l	99
8) Diethyl Ether	3.971	74	136958	40.097	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.377	101	215685	39.744	ug/l	97
10) Methyl Iodide	4.600	142	304539	40.837	ug/l	97
11) Tert butyl alcohol	5.530	59	207094	201.365	ug/l	100
12) 1,1-Dichloroethene	4.347	96	208230	39.667	ug/l	88
13) Acrolein	4.189	56	212550	210.060	ug/l	96
14) Allyl chloride	5.036	41	304925	42.510	ug/l	93
15) Acrylonitrile	5.736	53	541707	208.469	ug/l	99
16) Acetone	4.442	43	411220	197.936	ug/l	95
17) Carbon Disulfide	4.718	76	572457	37.712	ug/l	97
18) Methyl Acetate	5.036	43	344844	39.211	ug/l	91
19) Methyl tert-butyl Ether	5.800	73	711459	41.134	ug/l	100
20) Methylene Chloride	5.289	84	248597	40.424	ug/l	93
21) trans-1,2-Dichloroethene	5.794	96	235367	39.788	ug/l #	80
22) Diisopropyl ether	6.683	45	667069	41.532	ug/l	96
23) Vinyl Acetate	6.618	43	2166439	212.168	ug/l #	91
24) 1,1-Dichloroethane	6.583	63	422735	39.060	ug/l	98
25) 2-Butanone	7.494	43	678391	207.439	ug/l	89
26) 2,2-Dichloropropane	7.500	77	356772	40.304	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	277094	40.492	ug/l	95
28) Bromochloromethane	7.818	49	200732	39.378	ug/l	93
29) Tetrahydrofuran	7.847	42	446049	207.863	ug/l	86
30) Chloroform	7.971	83	459616	40.791	ug/l	94
31) Cyclohexane	8.265	56	350878	38.928	ug/l	92
32) 1,1,1-Trichloroethane	8.177	97	415202	41.100	ug/l	96
36) 1,1-Dichloropropene	8.377	75	339938	40.157	ug/l	98
37) Ethyl Acetate	7.571	43	294938	41.795	ug/l	95
38) Carbon Tetrachloride	8.371	117	376705	40.945	ug/l	97
39) Methylcyclohexane	9.612	83	313223	40.536	ug/l	93
40) Benzene	8.612	78	1021262	40.722	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078451.D
Acq On : 10 Jul 2023 13:10
Operator : JC\MD
Sample : VSTDICC040
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 15:54:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	145128	40.342	ug/l		93
42) 1,2-Dichloroethane	8.677	62	336345	39.429	ug/l		99
43) Isopropyl Acetate	8.694	43	489622	42.143	ug/l		94
44) Trichloroethene	9.359	130	267689	39.603	ug/l		95
45) 1,2-Dichloropropane	9.629	63	254219	40.023	ug/l		96
46) Dibromomethane	9.712	93	183848	41.124	ug/l		92
47) Bromodichloromethane	9.894	83	360787	40.259	ug/l		95
48) Methyl methacrylate	9.688	41	223368	41.499	ug/l		92
49) 1,4-Dioxane	9.700	88	95194	810.969	ug/l		92
51) 4-Methyl-2-Pentanone	10.453	43	1474393	213.353	ug/l		94
52) Toluene	10.635	92	646394	41.587	ug/l		97
53) t-1,3-Dichloropropene	10.841	75	384861	41.920	ug/l		98
54) cis-1,3-Dichloropropene	10.318	75	415396	42.447	ug/l		95
55) 1,1,2-Trichloroethane	11.023	97	248775	40.623	ug/l		96
56) Ethyl methacrylate	10.882	69	361395	42.216	ug/l	#	89
57) 1,3-Dichloropropane	11.170	76	420094	40.345	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	644098	211.125	ug/l		93
59) 2-Hexanone	11.200	43	1057107	215.235	ug/l		92
60) Dibromochloromethane	11.365	129	280365	41.469	ug/l		99
61) 1,2-Dibromoethane	11.476	107	263350	41.745	ug/l		97
64) Tetrachloroethene	11.112	164	236578	41.431	ug/l		96
65) Chlorobenzene	11.900	112	682832	40.221	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.965	131	264094	40.437	ug/l		97
67) Ethyl Benzene	11.970	91	1193910	41.605	ug/l		100
68) m/p-Xylenes	12.076	106	905406	85.335	ug/l		97
69) o-Xylene	12.406	106	440325	41.088	ug/l		96
70) Styrene	12.417	104	723105	43.130	ug/l		99
71) Bromoform	12.582	173	188750	42.673	ug/l	#	100
73) Isopropylbenzene	12.700	105	1104817	36.984	ug/l		99
74) N-amyl acetate	12.500	43	388381	37.727	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.941	83	355158	42.076	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	290690m	37.872	ug/l		
77) Bromobenzene	12.988	156	268189	41.006	ug/l		95
78) n-propylbenzene	13.041	91	1242491	38.892	ug/l		100
79) 2-Chlorotoluene	13.129	91	775129	37.042	ug/l		96
80) 1,3,5-Trimethylbenzene	13.176	105	905907	38.381	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	108755	37.191	ug/l		95
82) 4-Chlorotoluene	13.229	91	743995	38.113	ug/l		97
83) tert-Butylbenzene	13.447	119	745533	37.204	ug/l		98
84) 1,2,4-Trimethylbenzene	13.488	105	906971	39.560	ug/l		99
85) sec-Butylbenzene	13.623	105	951488	37.565	ug/l		98
86) p-Isopropyltoluene	13.735	119	797311	39.202	ug/l		97
87) 1,3-Dichlorobenzene	13.741	146	447101	38.987	ug/l		98
88) 1,4-Dichlorobenzene	13.817	146	434810	37.642	ug/l		99
89) n-Butylbenzene	14.064	91	595980	40.954	ug/l		98
90) Hexachloroethane	14.341	117	149143	39.729	ug/l		84
91) 1,2-Dichlorobenzene	14.111	146	440096	38.562	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	60119	41.720	ug/l		93
93) 1,2,4-Trichlorobenzene	15.400	180	148938	40.890	ug/l		97
94) Hexachlorobutadiene	15.506	225	78543	40.933	ug/l		98
95) Naphthalene	15.647	128	492797	39.576	ug/l		99
96) 1,2,3-Trichlorobenzene	15.847	180	167339	39.955	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078451.D
Acq On : 10 Jul 2023 13:10
Operator : JC\MD
Sample : VSTDICC040
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 15:54:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

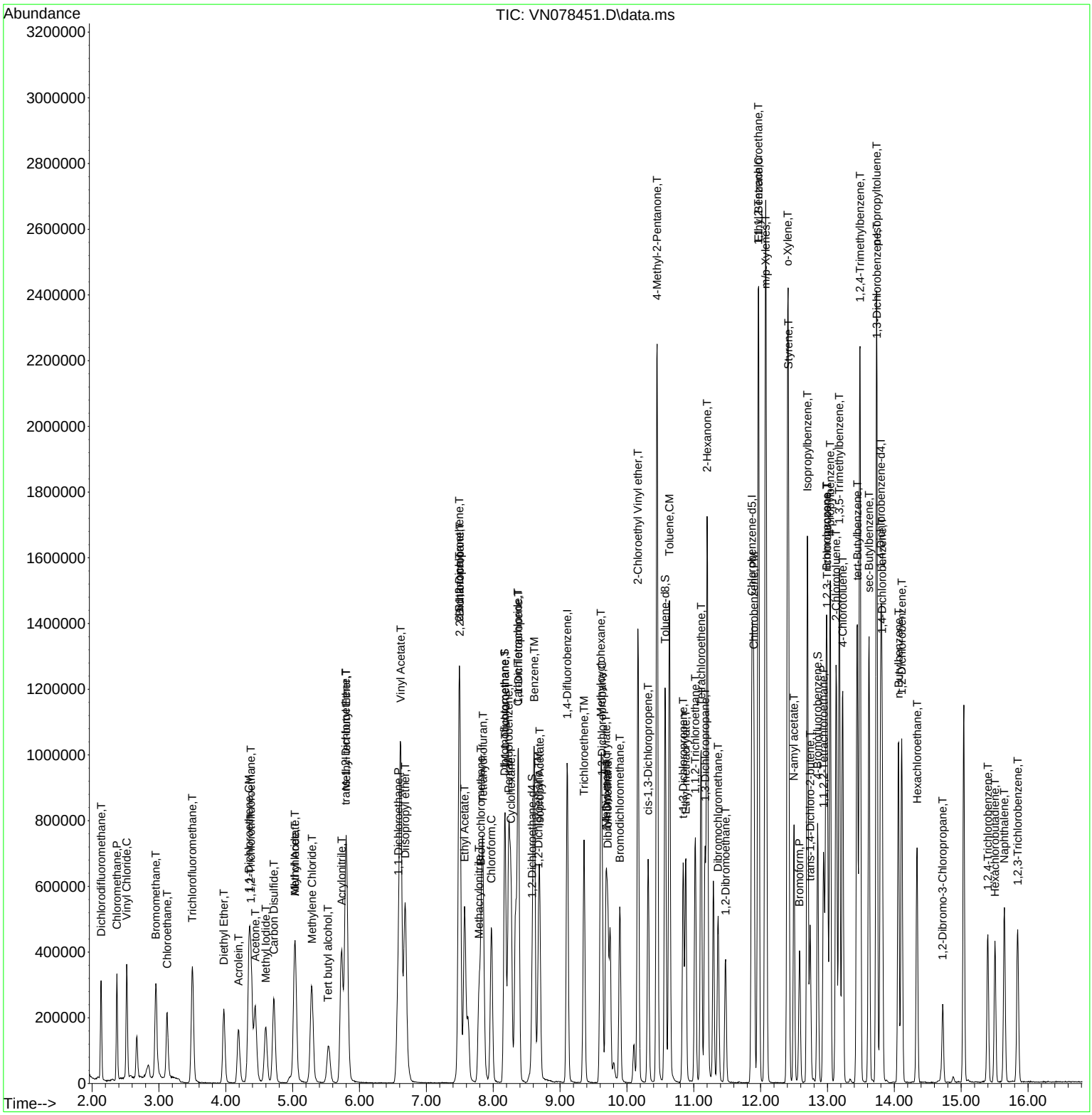
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078451.D
Acq On : 10 Jul 2023 13:10
Operator : JC\MD
Sample : VSTDICC040
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

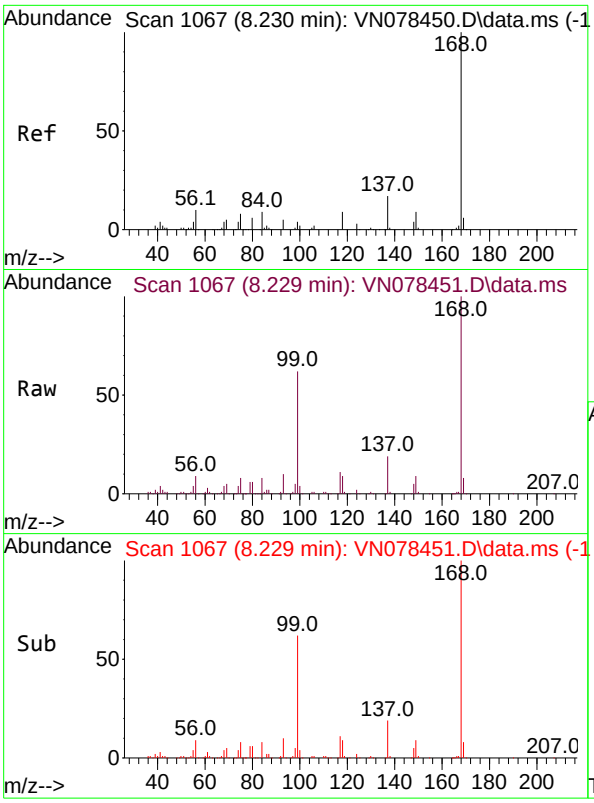
Quant Time: Jul 10 15:54:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

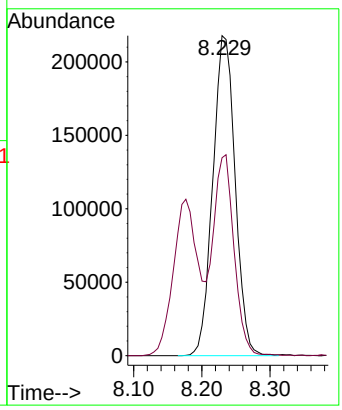




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:168 Resp: 49749

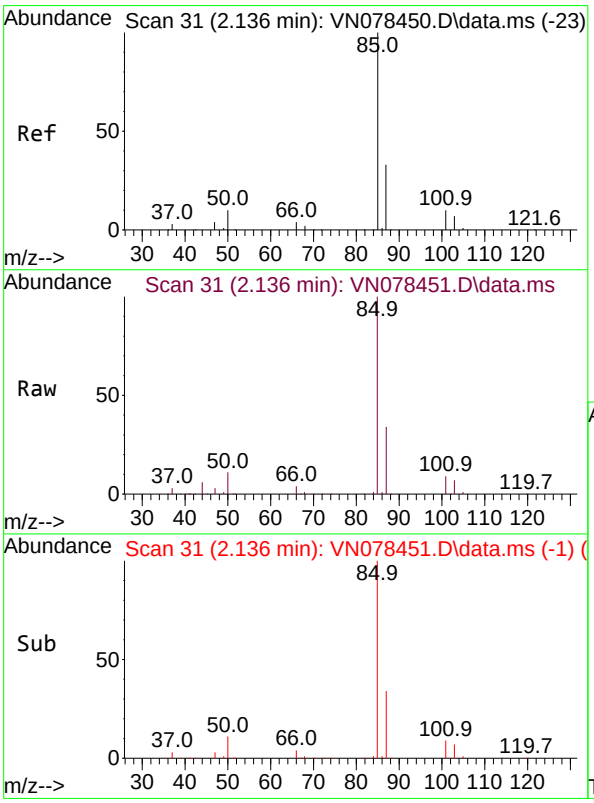
Ion	Ratio	Lower	Upper
168	100		
99	61.6	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

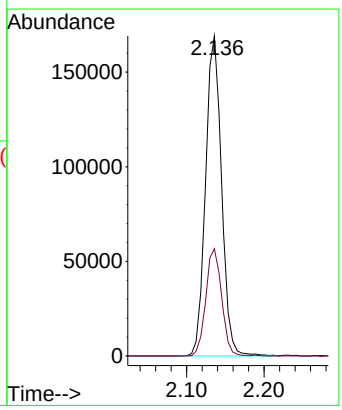
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

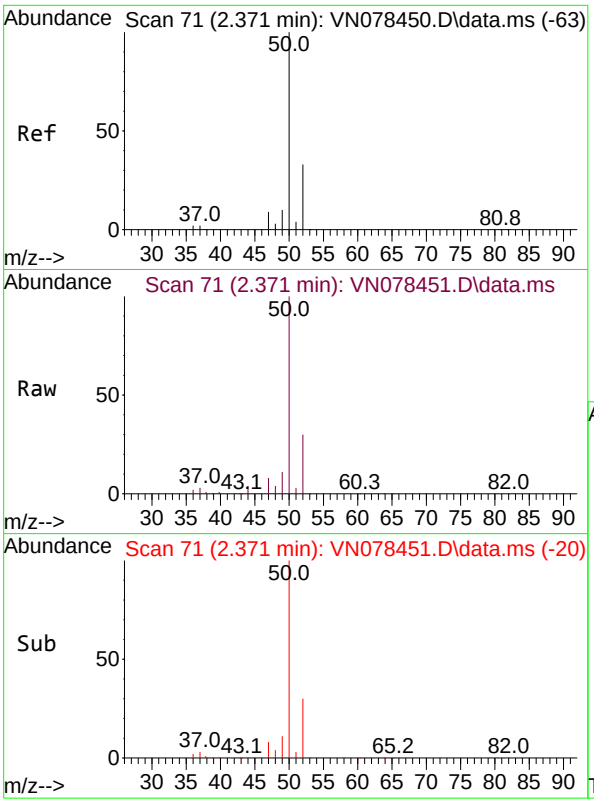


#2
Dichlorodifluoromethane
Concen: 39.755 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 85 Resp: 242491

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.8	47.4

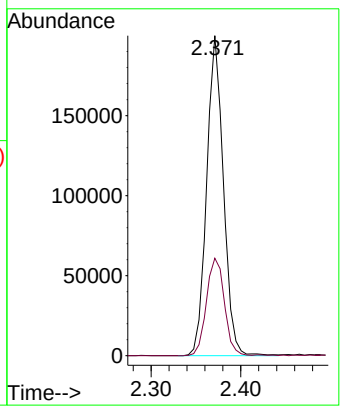




#3
Chloromethane
Concen: 39.076 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 50 Resp: 25906

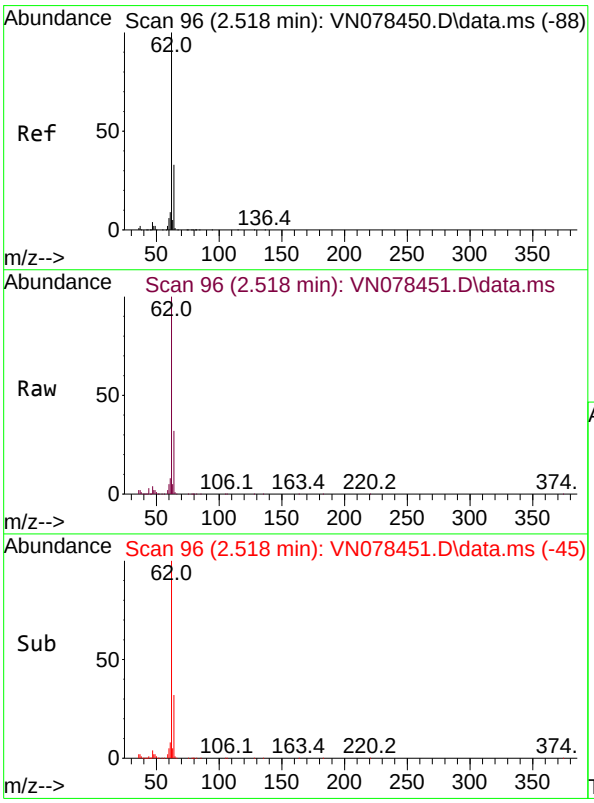
Ion	Ratio	Lower	Upper
50	100		
52	30.5	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

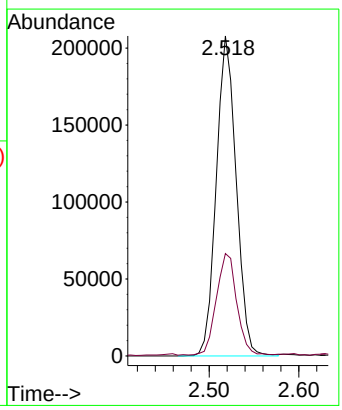
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

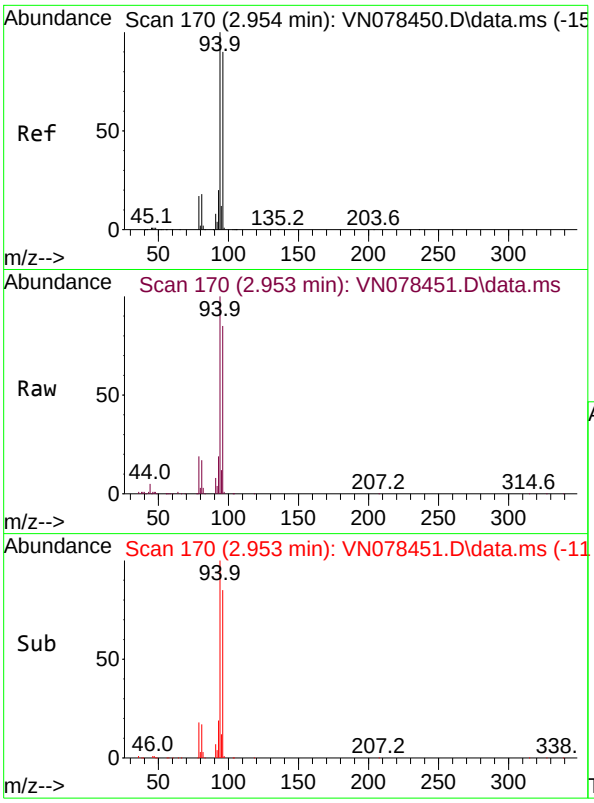


#4
Vinyl Chloride
Concen: 37.342 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 62 Resp: 320248

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.2	39.2

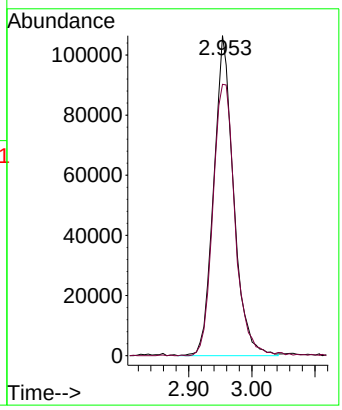




#5
Bromomethane
Concen: 42.183 ug/l
RT: 2.953 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 94 Resp: 23304

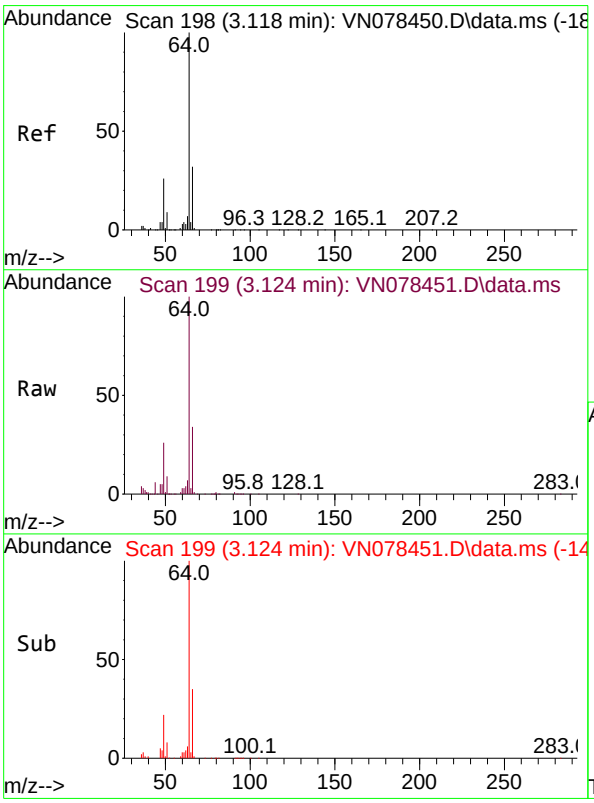
Ion	Ratio	Lower	Upper
94	100		
96	84.8	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

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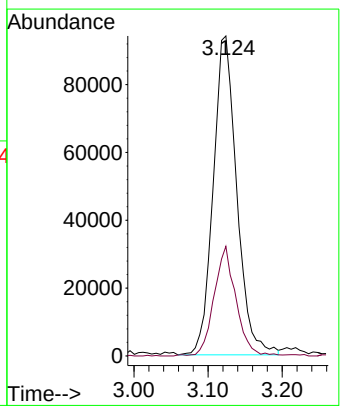
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

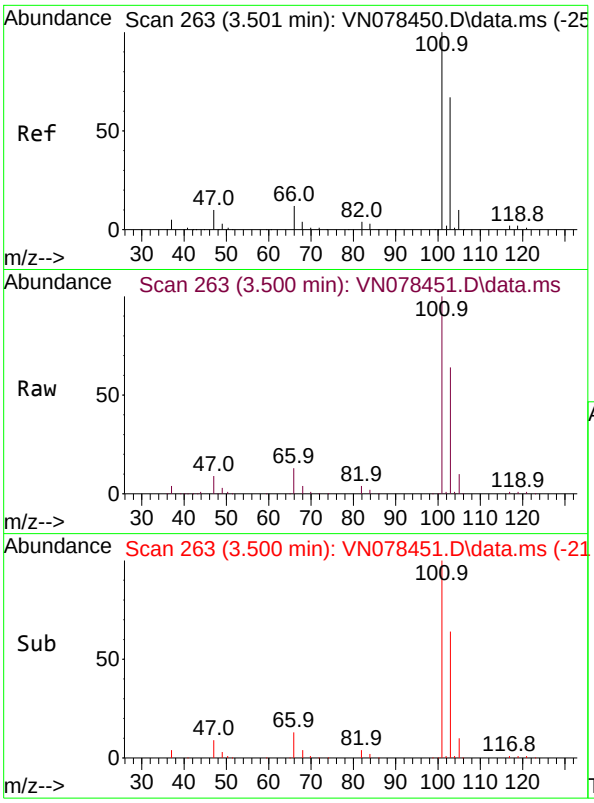


#6
Chloroethane
Concen: 39.762 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 64 Resp: 208323

Ion	Ratio	Lower	Upper
64	100		
66	34.0	25.4	38.2





#7
Trichlorofluoromethane
Concen: 38.558 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

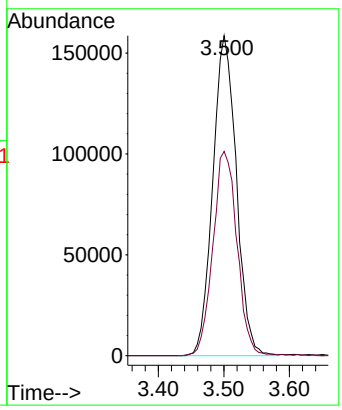
Tgt Ion:101 Resp: 39528

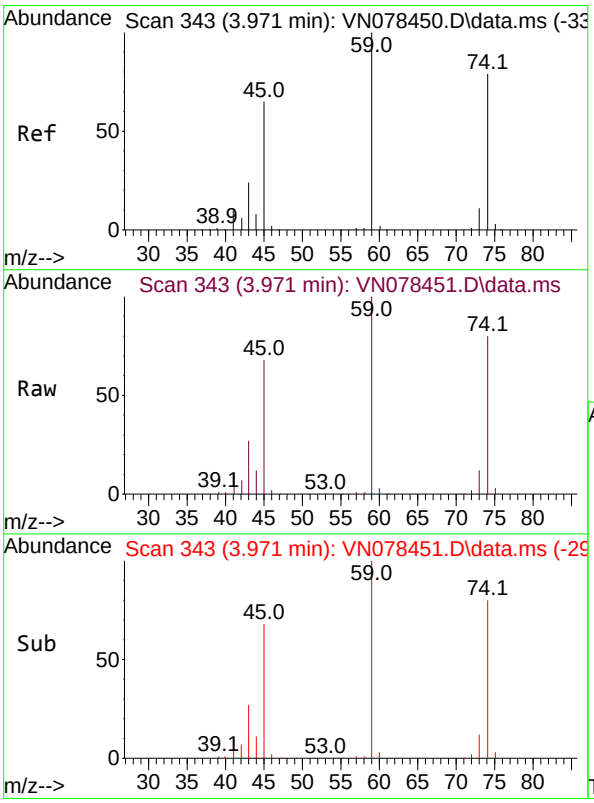
Ion	Ratio	Lower	Upper
101	100		
103	63.8	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

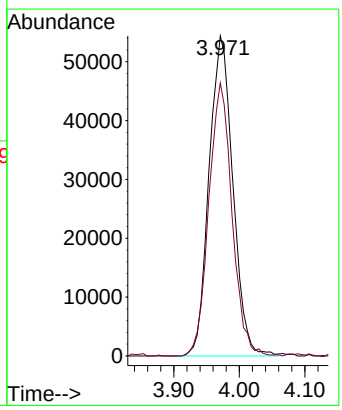


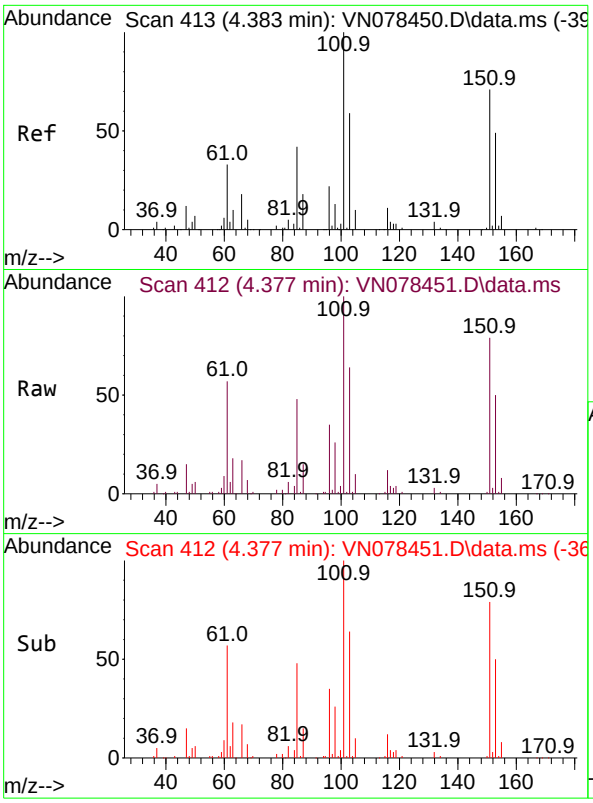


#8
Diethyl Ether
Concen: 40.097 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 74 Resp: 136958

Ion	Ratio	Lower	Upper
74	100		
45	83.2	34.4	103.3

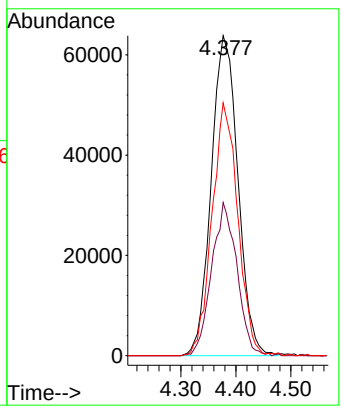




#9
1,1,2-Trichlorotrifluoroethane
Concen: 39.744 ug/l
RT: 4.377 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:101 Resp: 21568

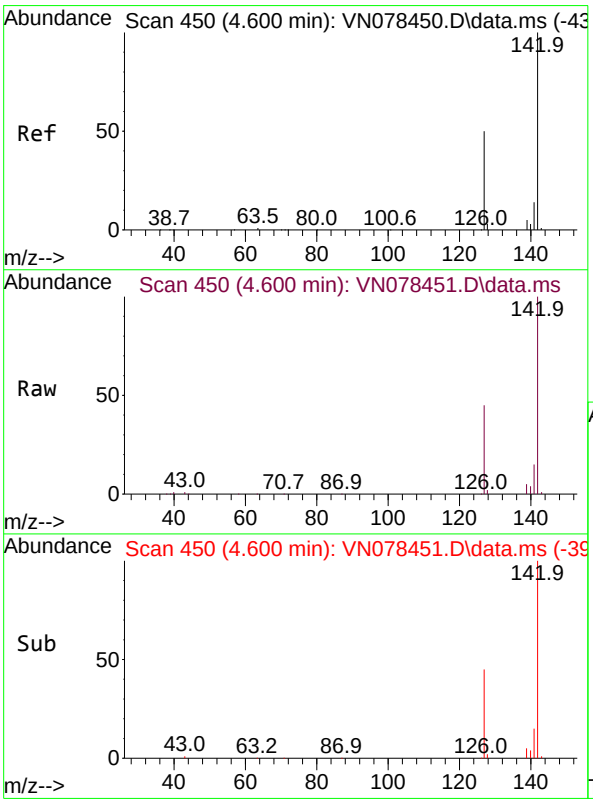
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.6	55.0
151	76.0	57.6	86.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

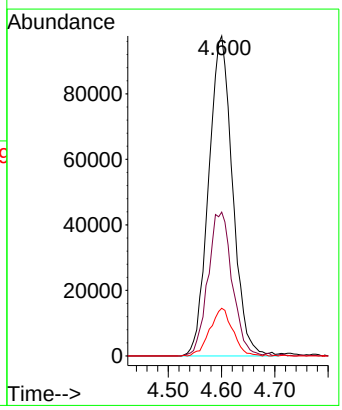
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

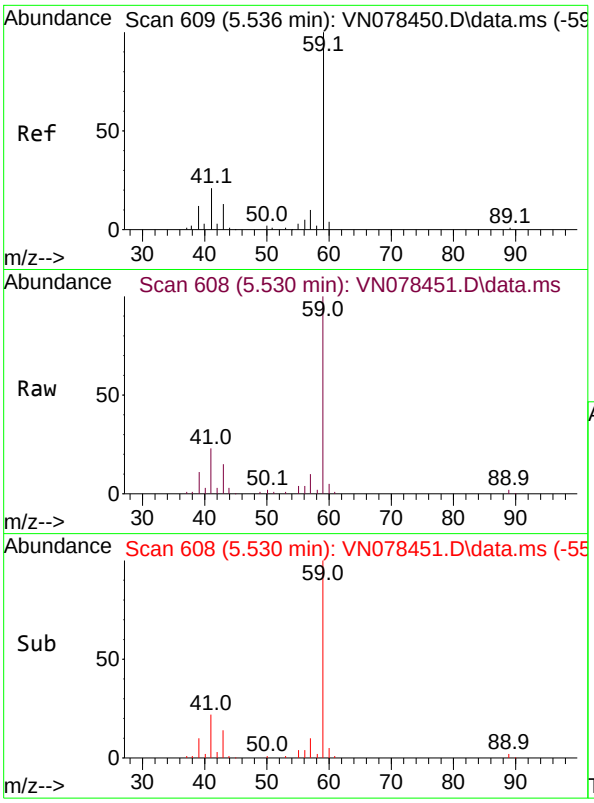


#10
Methyl Iodide
Concen: 40.837 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:142 Resp: 304539

Ion	Ratio	Lower	Upper
142	100		
127	45.0	37.6	56.4
141	14.9	11.4	17.0

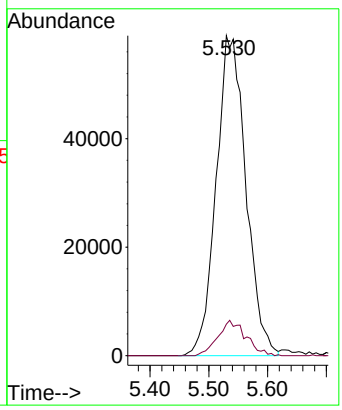




#11
Tert butyl alcohol
Concen: 201.365 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 59 Resp: 20709

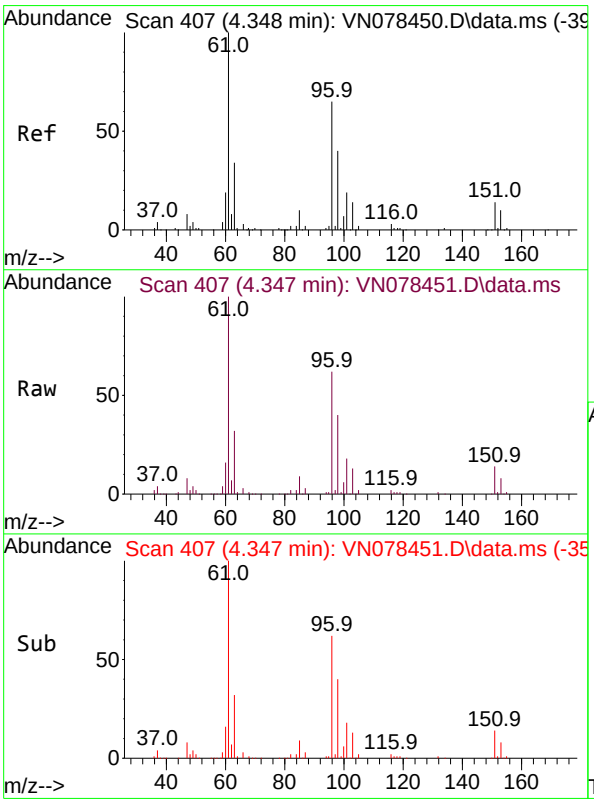
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

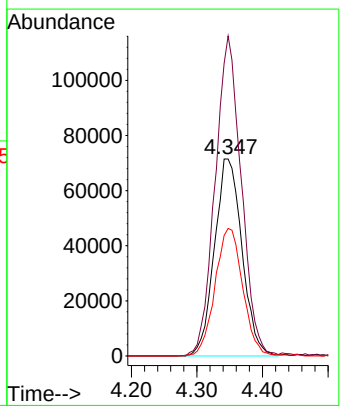
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

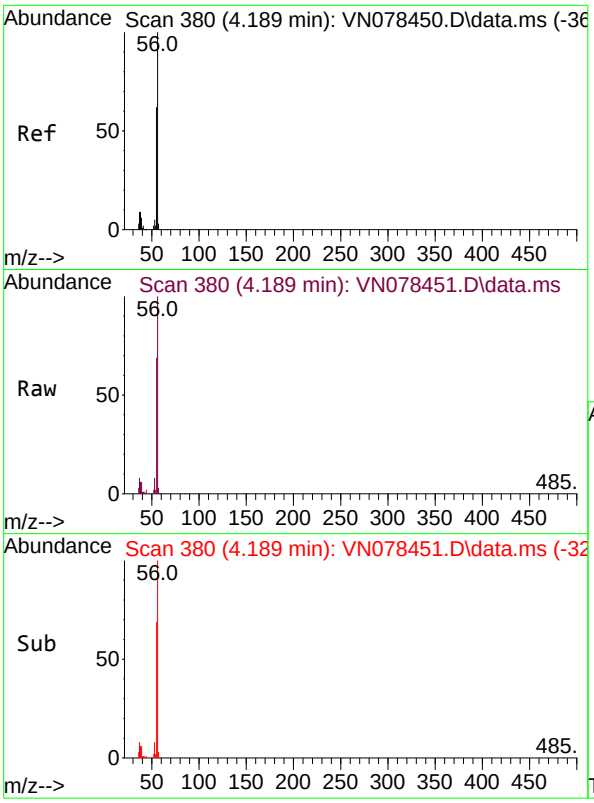


#12
1,1-Dichloroethene
Concen: 39.667 ug/l
RT: 4.347 min Scan# 407
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 96 Resp: 208230

Ion	Ratio	Lower	Upper
96	100		
61	162.5	112.7	169.1
98	64.8	51.2	76.8

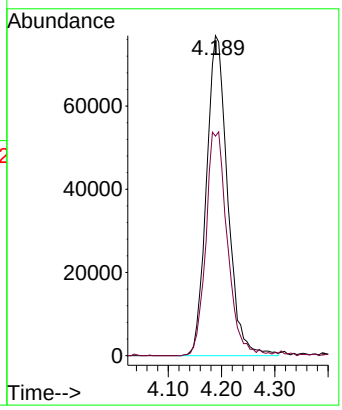




#13
Acrolein
Concen: 210.060 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 56 Resp: 21255

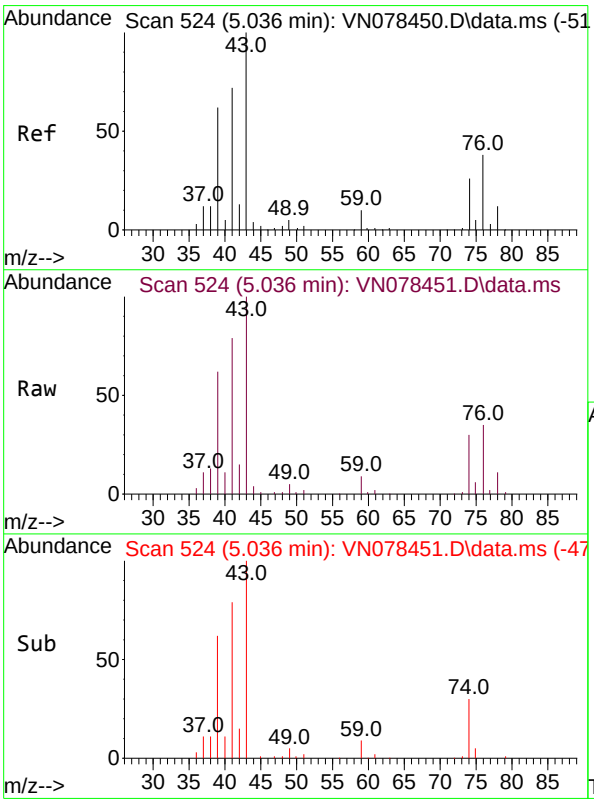
Ion	Ratio	Lower	Upper
56	100		
55	71.3	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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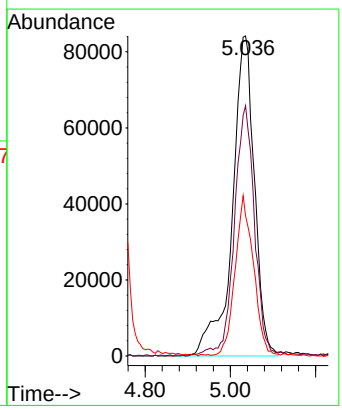
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

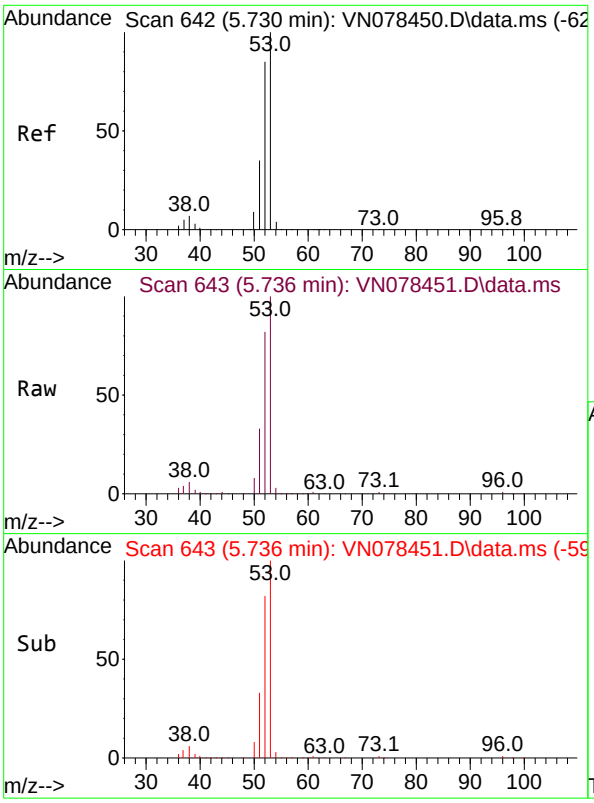


#14
Allyl chloride
Concen: 42.510 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 41 Resp: 304925

Ion	Ratio	Lower	Upper
41	100		
39	69.6	58.8	88.2
76	41.0	39.1	58.7

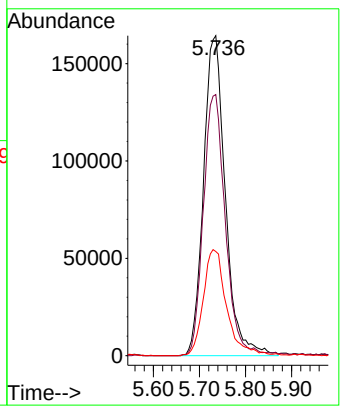




#15
Acrylonitrile
Concen: 208.469 ug/l
RT: 5.736 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 53 Resp: 54170

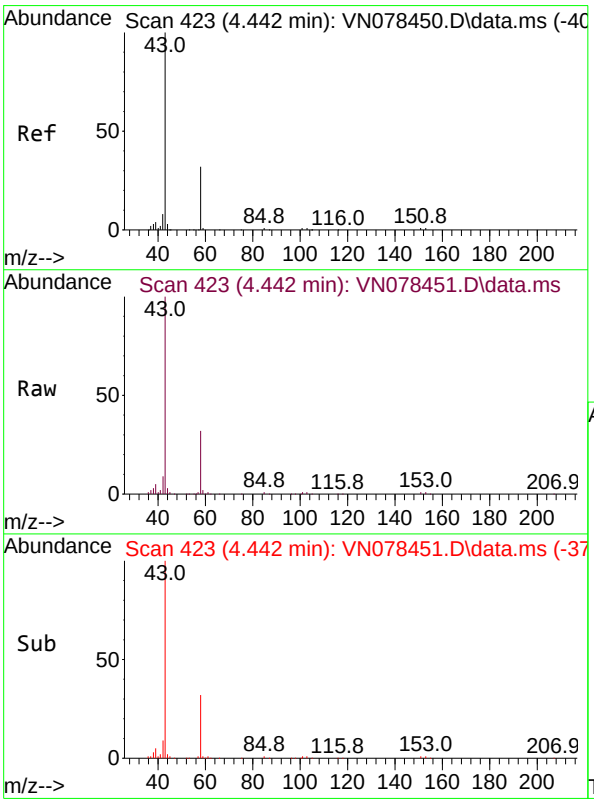
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.3	97.9
51	35.3	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

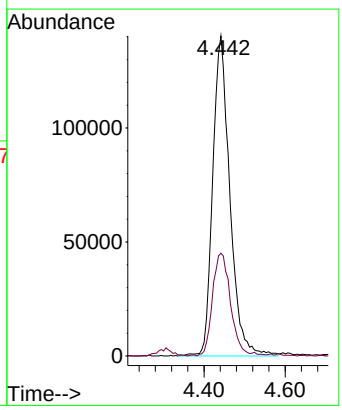
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

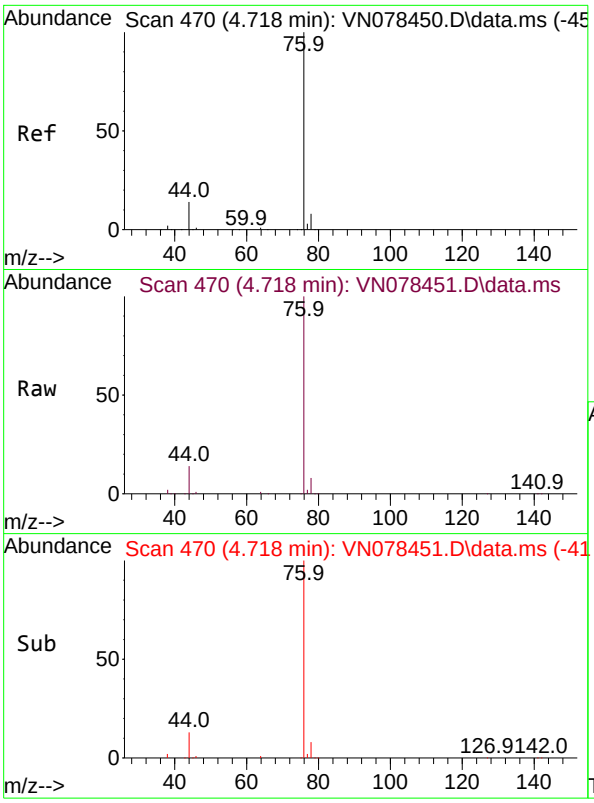


#16
Acetone
Concen: 197.936 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 43 Resp: 411220

Ion	Ratio	Lower	Upper
43	100		
58	31.8	28.0	42.0





#17
Carbon Disulfide
Concen: 37.712 ug/l
RT: 4.718 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

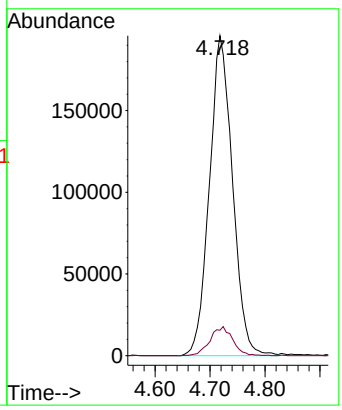
Tgt Ion: 76 Resp: 57245

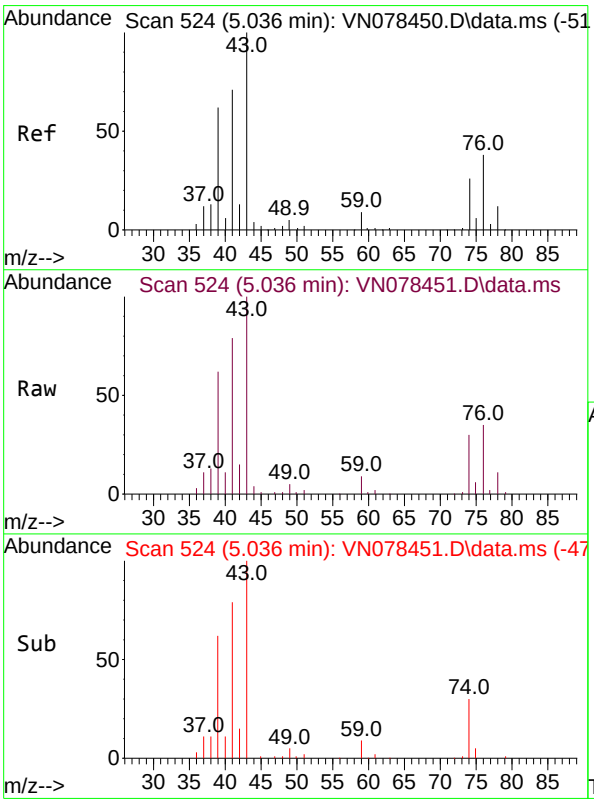
Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.4	11.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

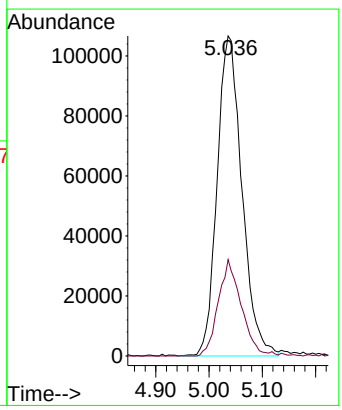


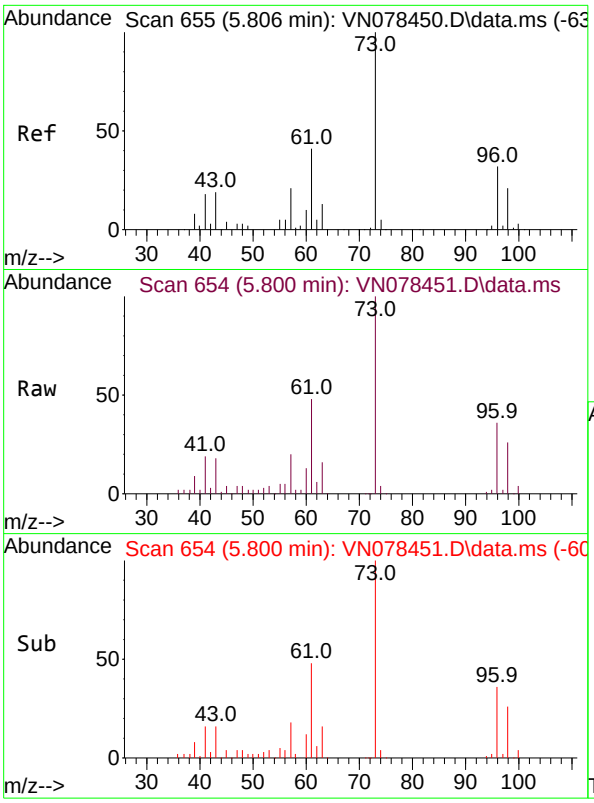


#18
Methyl Acetate
Concen: 39.211 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 43 Resp: 344844

Ion	Ratio	Lower	Upper
43	100		
74	27.9	26.2	39.4

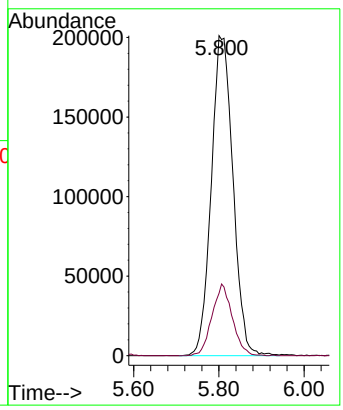




#19
Methyl tert-butyl Ether
Concen: 41.134 ug/l
RT: 5.800 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 73 Resp: 71145

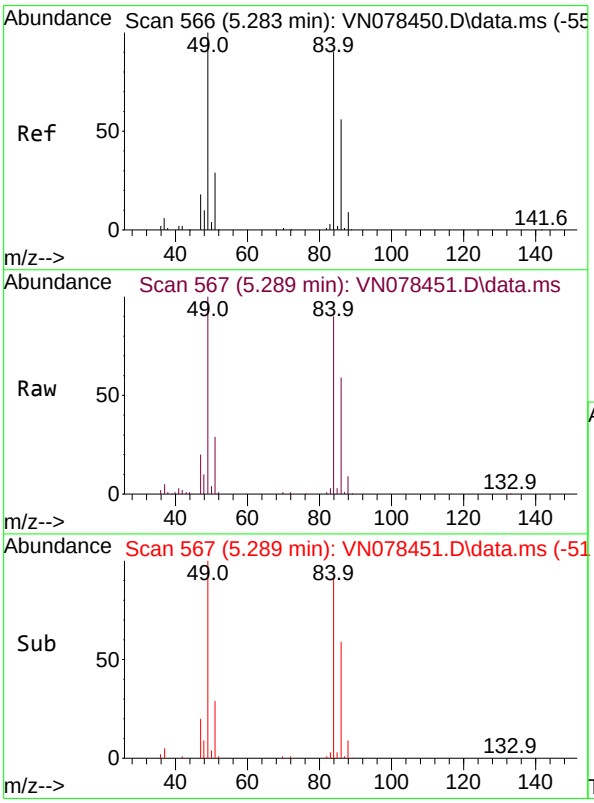
Ion	Ratio	Lower	Upper
73	100		
57	19.5	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

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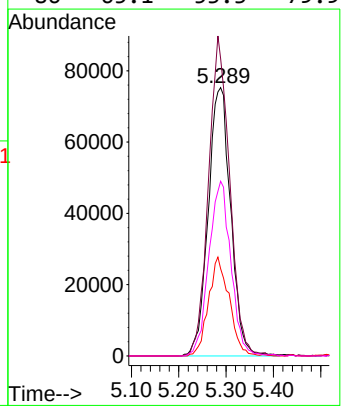
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

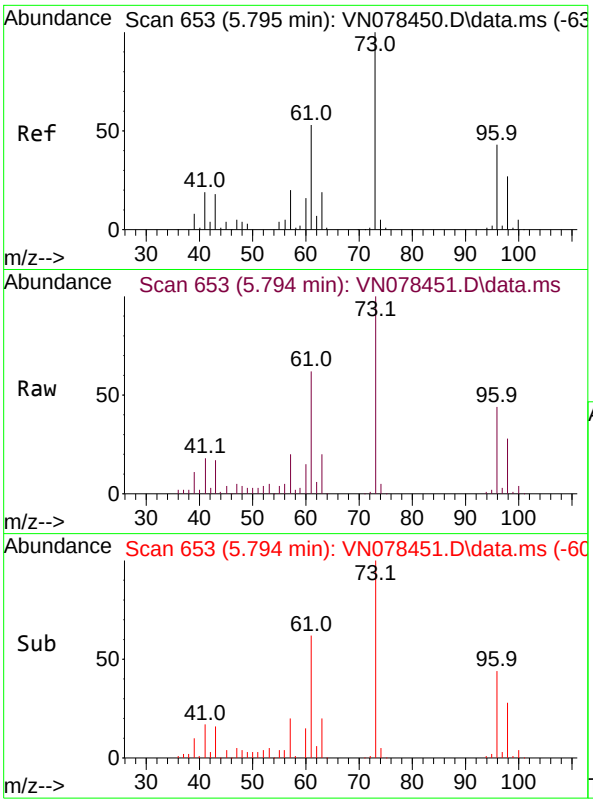


#20
Methylene Chloride
Concen: 40.424 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 84 Resp: 248597

Ion	Ratio	Lower	Upper
84	100		
49	110.8	79.7	119.5
51	32.5	25.2	37.8
86	65.1	53.3	79.9





#21
trans-1,2-Dichloroethene
Concen: 39.788 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

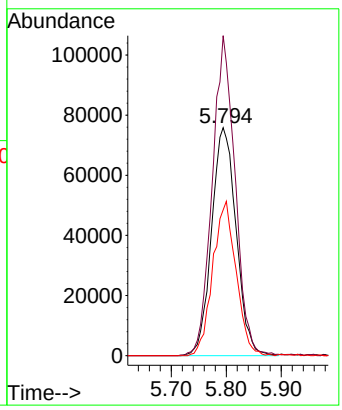
Tgt Ion: 96 Resp: 23536

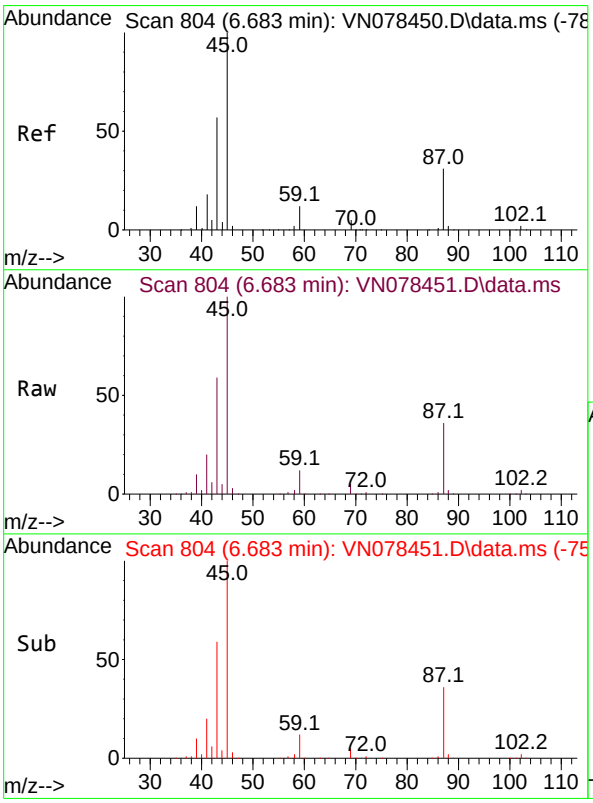
Ion	Ratio	Lower	Upper
96	100		
61	140.3	90.1	135.1#
98	63.9	46.4	69.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

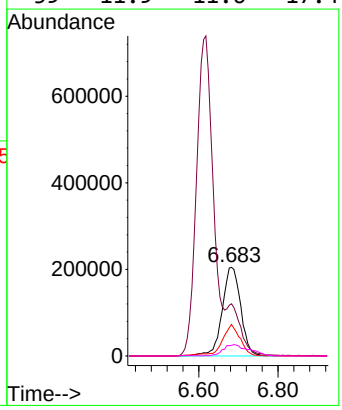


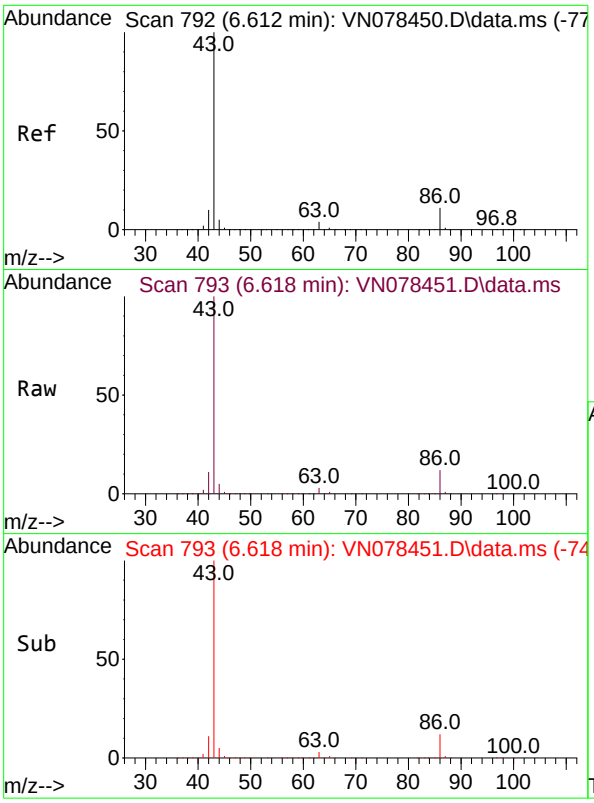


#22
Diisopropyl ether
Concen: 41.532 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 45 Resp: 667069

Ion	Ratio	Lower	Upper
45	100		
43	58.5	45.5	68.3
87	35.4	31.8	47.8
59	11.9	11.6	17.4





#23
Vinyl Acetate
Concen: 212.168 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

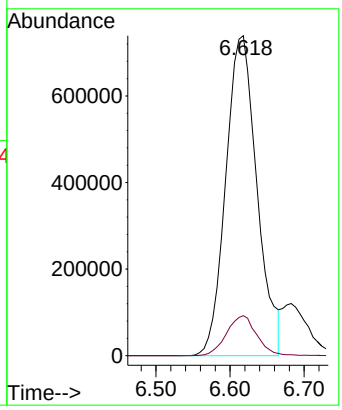
Tgt Ion: 43 Resp: 216643

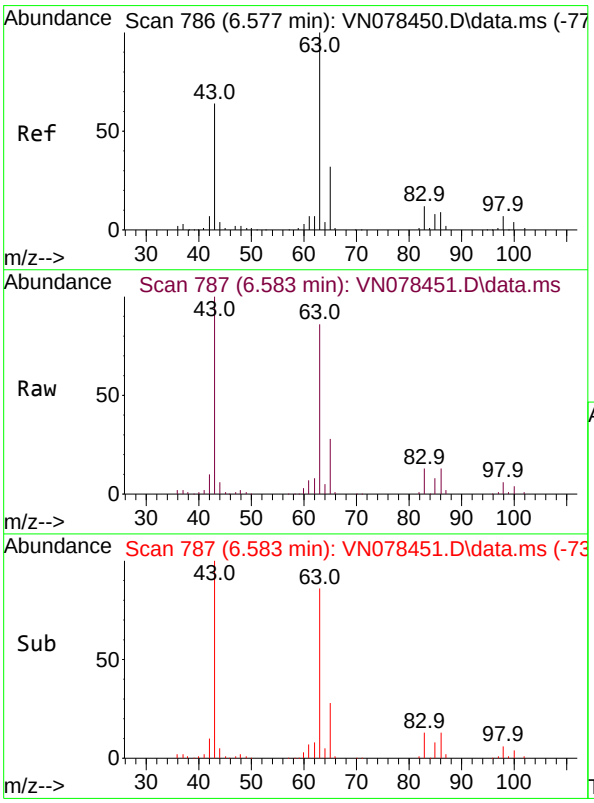
Ion	Ratio	Lower	Upper
43	100		
86	12.5	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

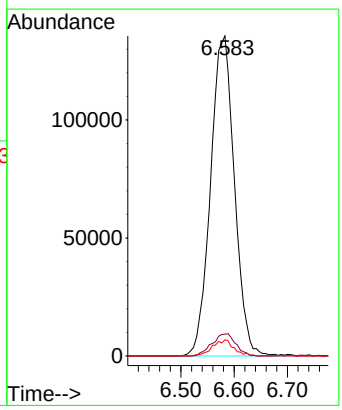


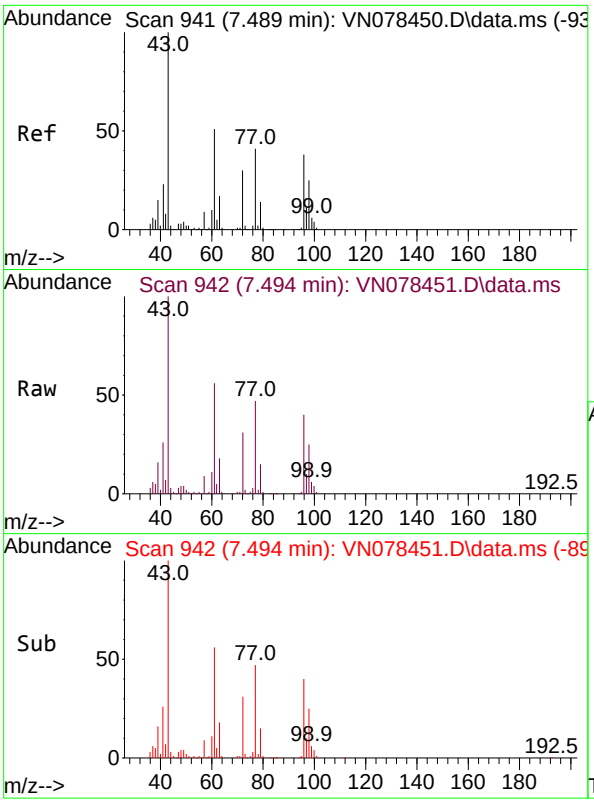


#24
1,1-Dichloroethane
Concen: 39.060 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 63 Resp: 422735

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.9	11.7
100	5.1	2.5	7.4

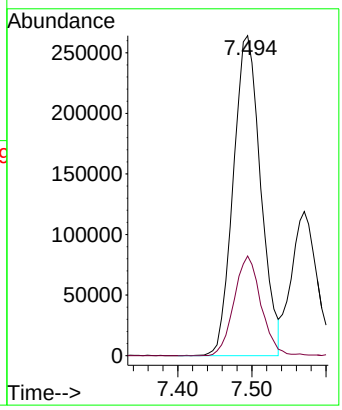




#25
2-Butanone
Concen: 207.439 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.005 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 43 Resp: 67839

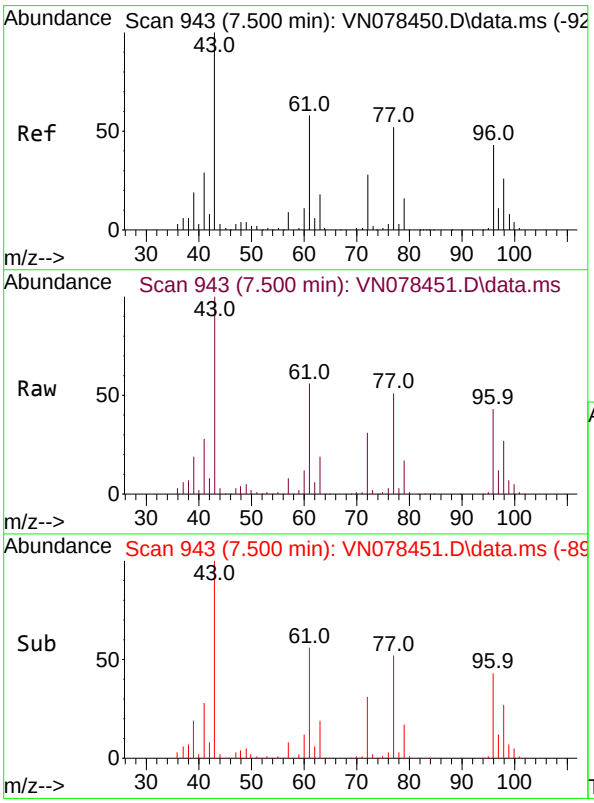
Ion	Ratio	Lower	Upper
43	100		
72	31.2	30.2	45.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

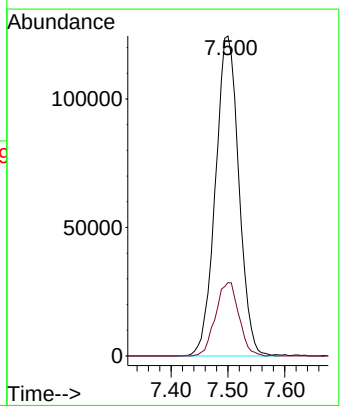
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

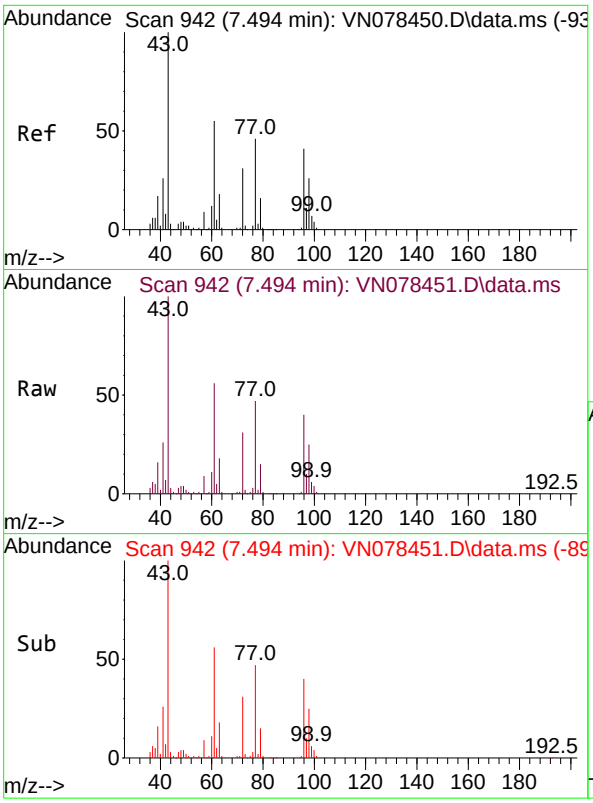


#26
2,2-Dichloropropane
Concen: 40.304 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 77 Resp: 356772

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.2	33.6





#27
cis-1,2-Dichloroethene
Concen: 40.492 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

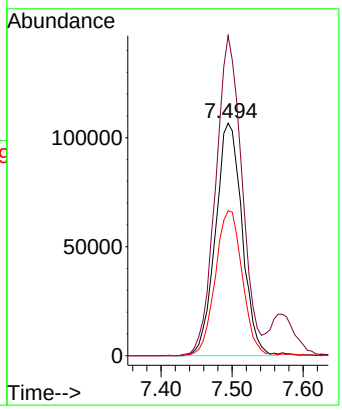
Tgt Ion: 96 Resp: 27709

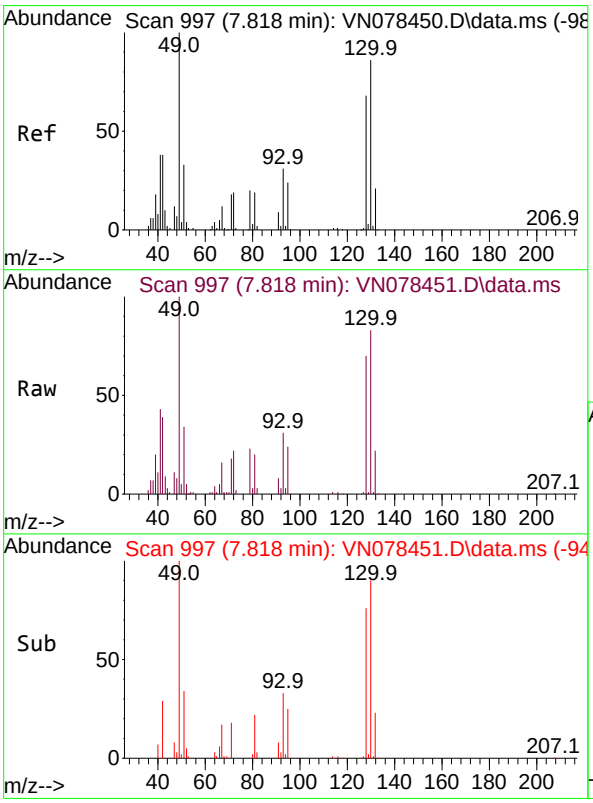
Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	255.2
98	63.4	0.0	128.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

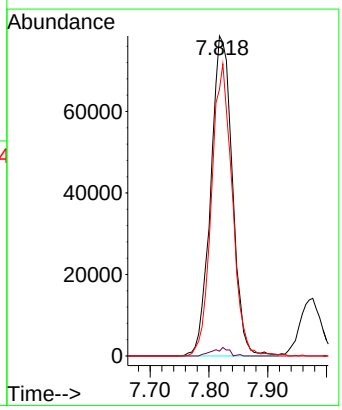


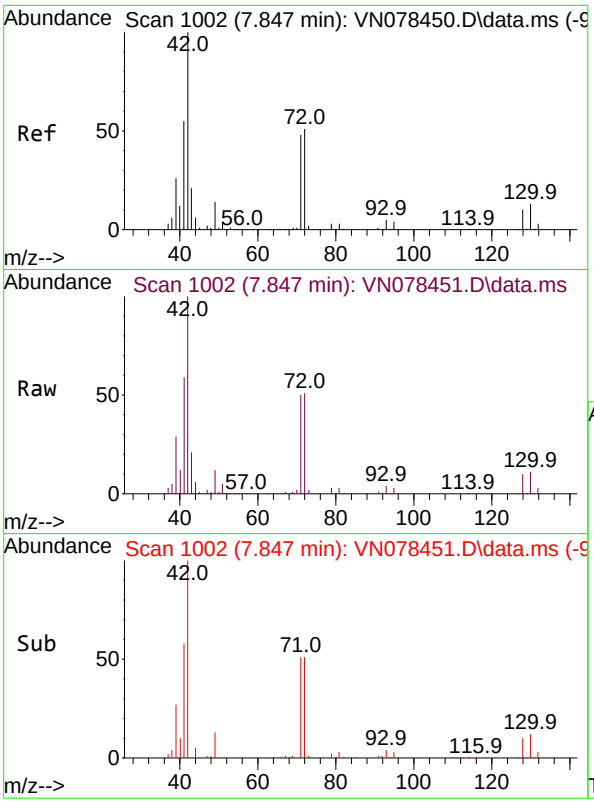


#28
Bromochloromethane
Concen: 39.378 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 49 Resp: 200732

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.8
130	87.4	75.3	112.9

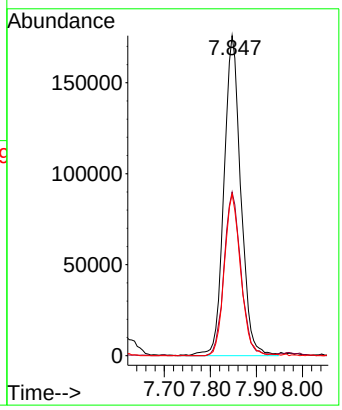




#29
Tetrahydrofuran
Concen: 207.863 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 42 Resp: 44604

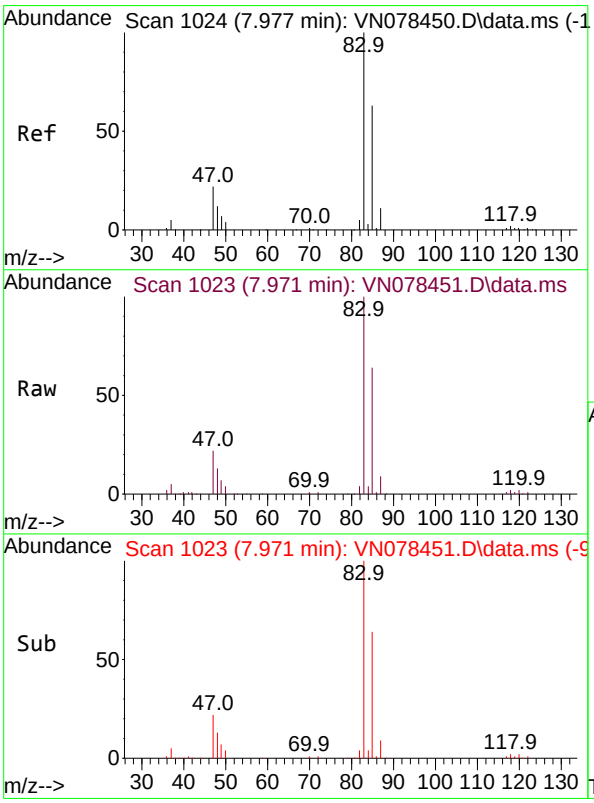
Ion	Ratio	Lower	Upper
42	100		
72	51.0	49.8	74.6
71	48.8	47.4	71.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

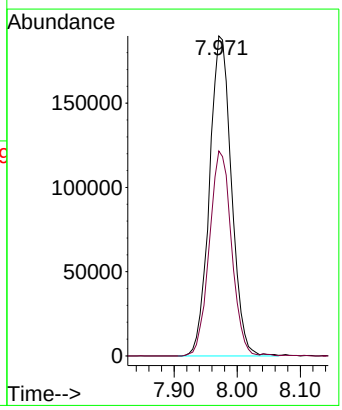
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

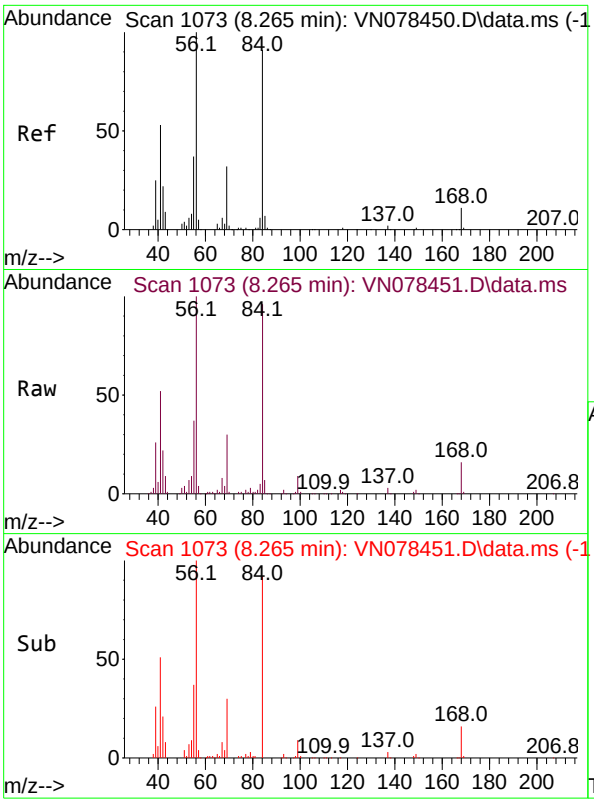


#30
Chloroform
Concen: 40.791 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 83 Resp: 459616

Ion	Ratio	Lower	Upper
83	100		
85	64.1	55.4	83.0

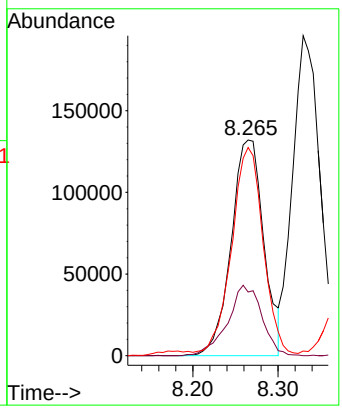




#31
Cyclohexane
Concen: 38.928 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 56 Resp: 35087

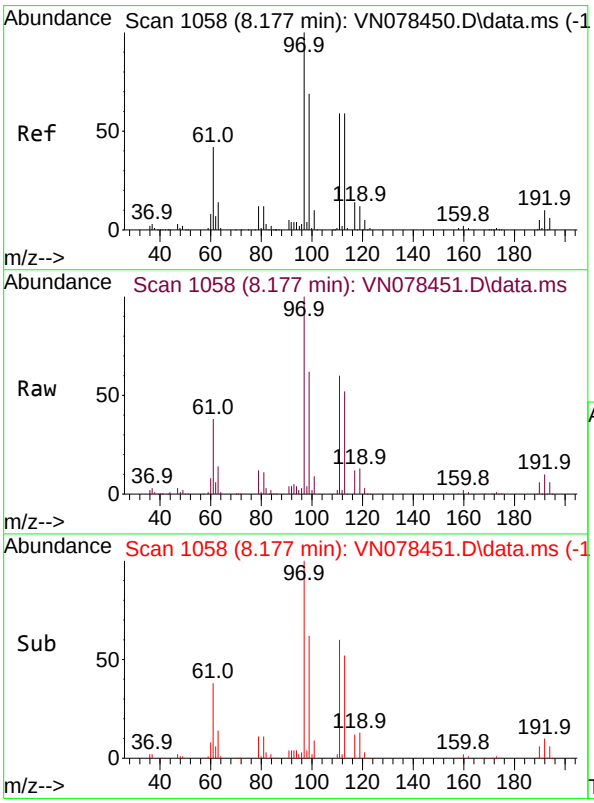
Ion	Ratio	Lower	Upper
56	100		
69	29.6	26.8	40.2
84	94.3	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

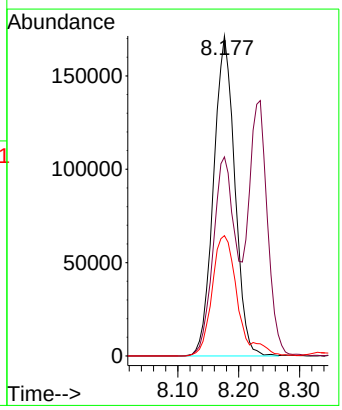
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

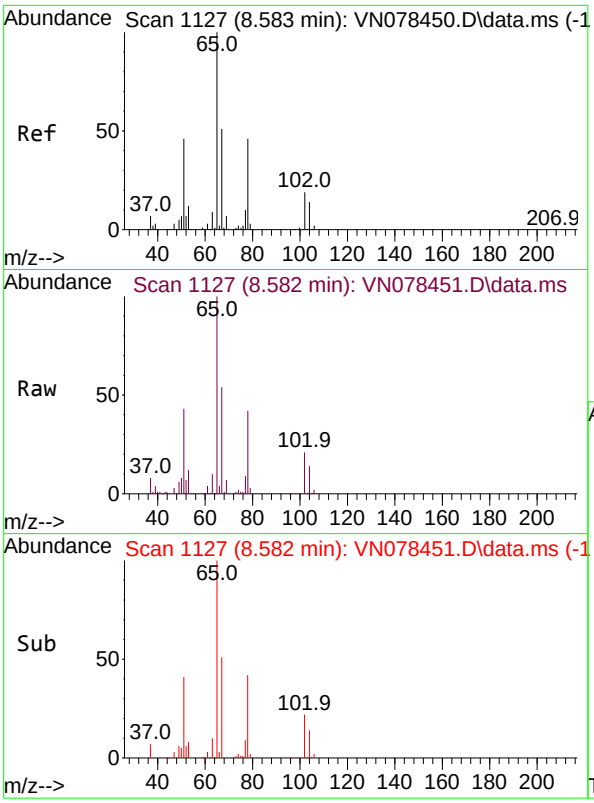


#32
1,1,1-Trichloroethane
Concen: 41.100 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 97 Resp: 415202

Ion	Ratio	Lower	Upper
97	100		
99	66.3	50.3	75.5
61	45.1	34.7	52.1

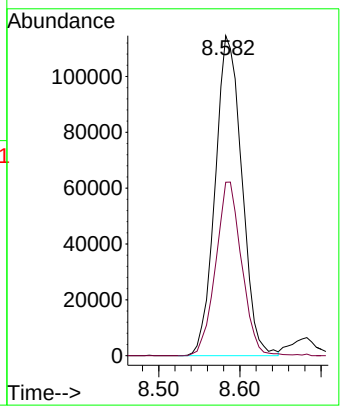




#33
1,2-Dichloroethane-d4
Concen: 39.186 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 65 Resp: 26134

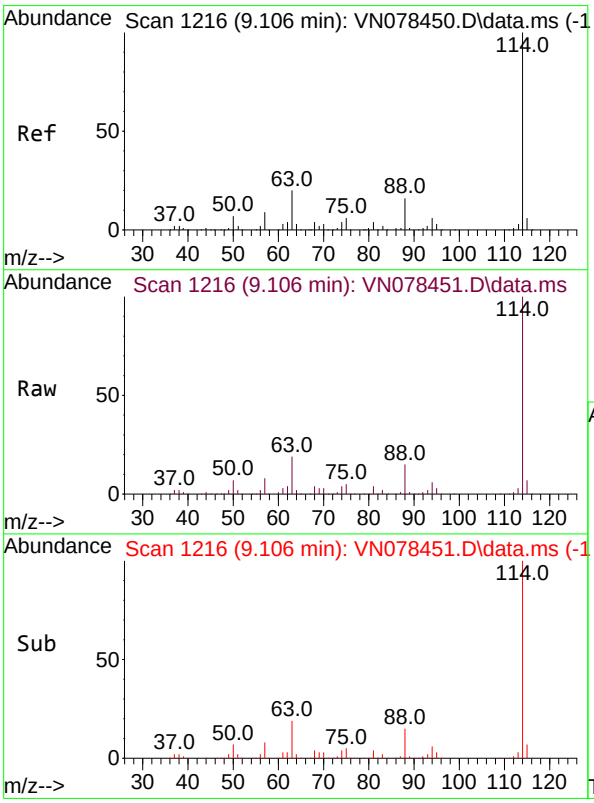
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

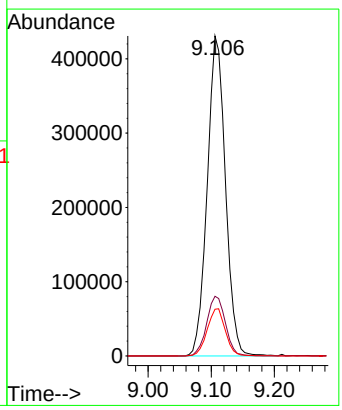
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

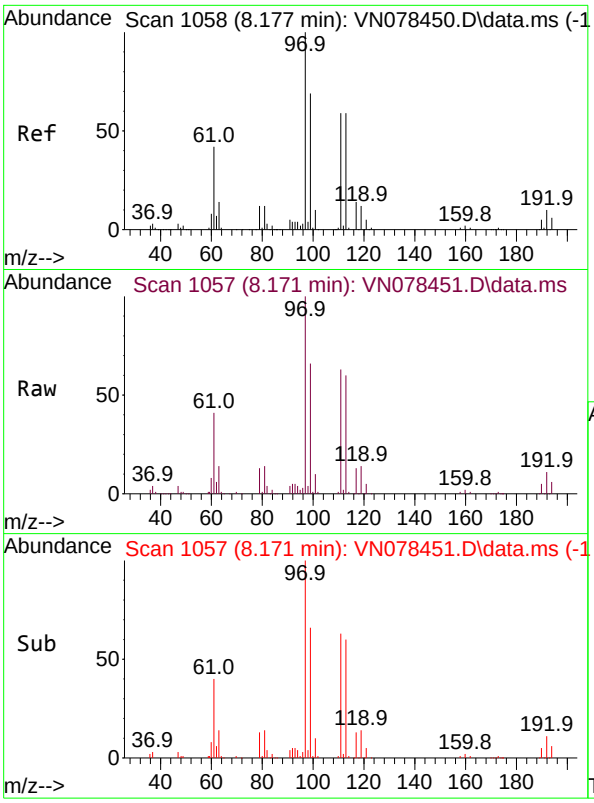


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:114 Resp: 863649

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	36.4
88	14.6	0.0	30.6

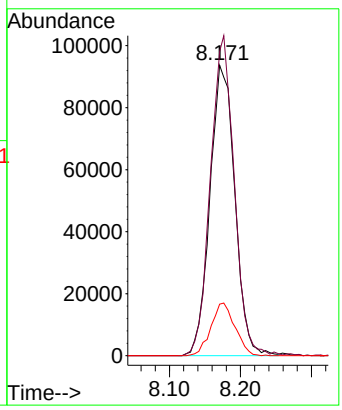




#35
Dibromofluoromethane
Concen: 38.865 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:113 Resp: 22785

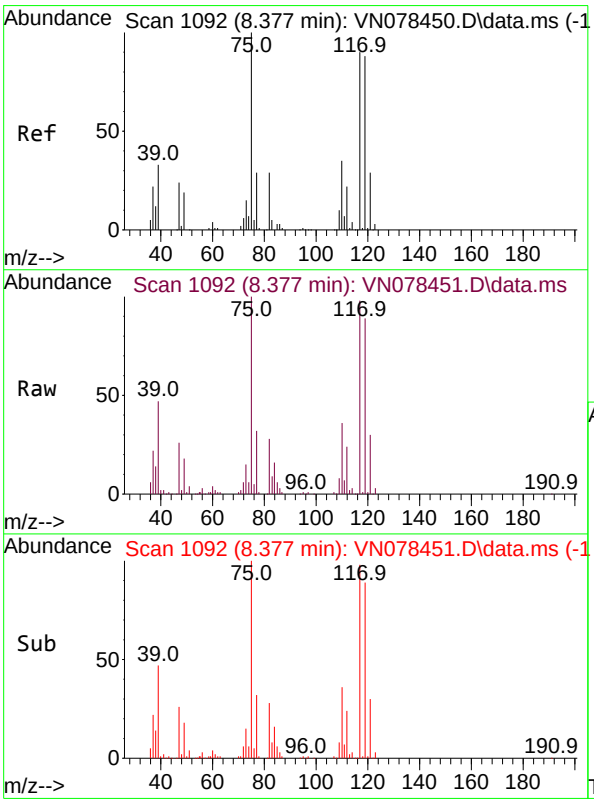
Ion	Ratio	Lower	Upper
113	100		
111	105.2	82.6	123.8
192	17.5	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

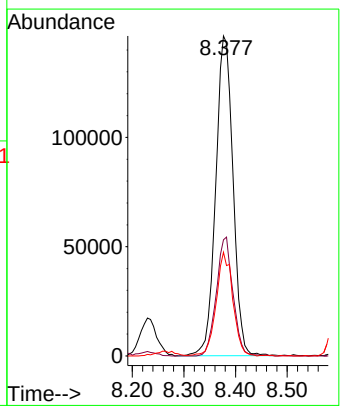
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

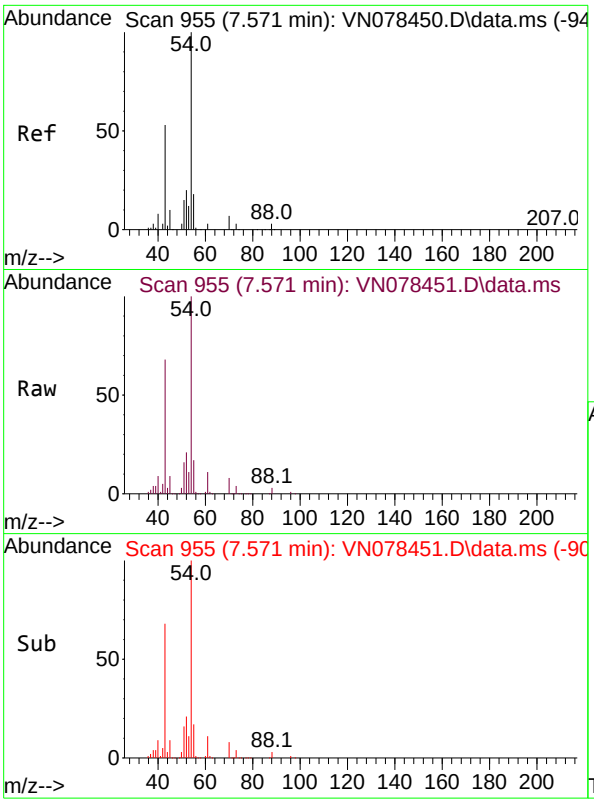


#36
1,1-Dichloropropene
Concen: 40.157 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 75 Resp: 339938

Ion	Ratio	Lower	Upper
75	100		
110	35.7	19.1	57.3
77	31.3	25.0	37.4





#37
Ethyl Acetate
Concen: 41.795 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

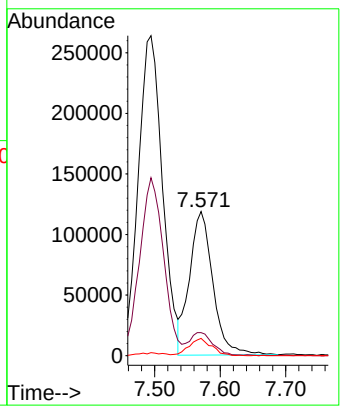
Tgt Ion: 43 Resp: 29493

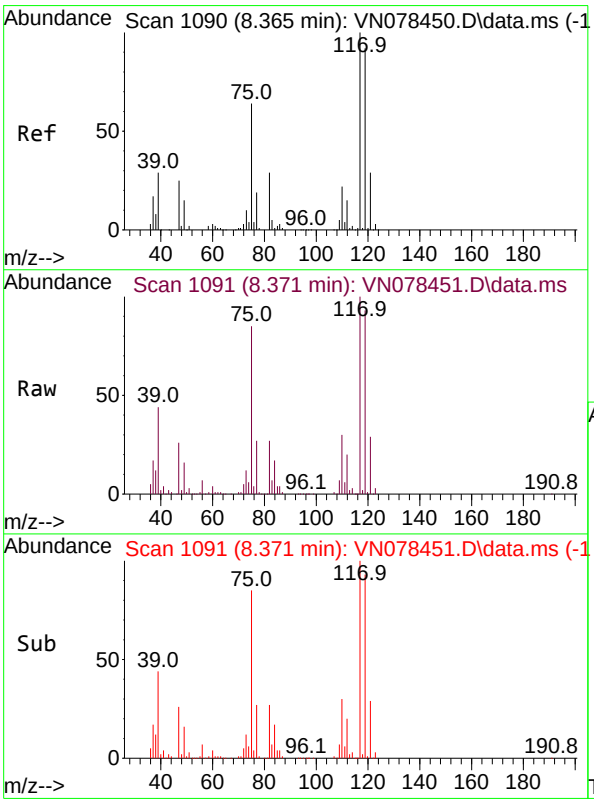
Ion	Ratio	Lower	Upper
43	100		
61	14.7	13.2	19.8
70	11.7	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
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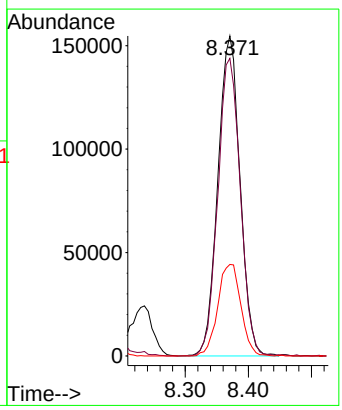


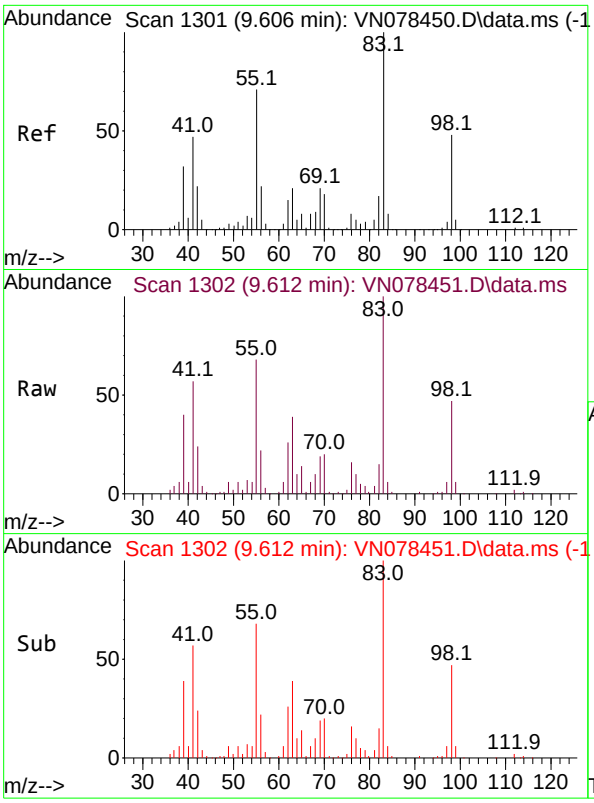


#38
Carbon Tetrachloride
Concen: 40.945 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:117 Resp: 376705

Ion	Ratio	Lower	Upper
117	100		
119	93.0	77.3	115.9
121	28.6	23.3	34.9





#39
Methylcyclohexane
Concen: 40.536 ug/l
RT: 9.612 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

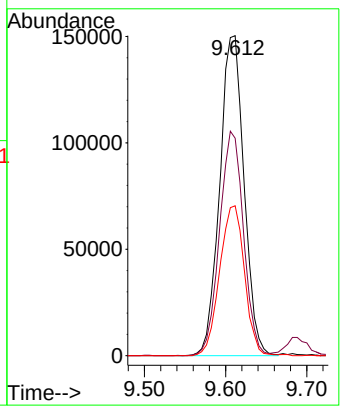
Tgt Ion: 83 Resp: 31322

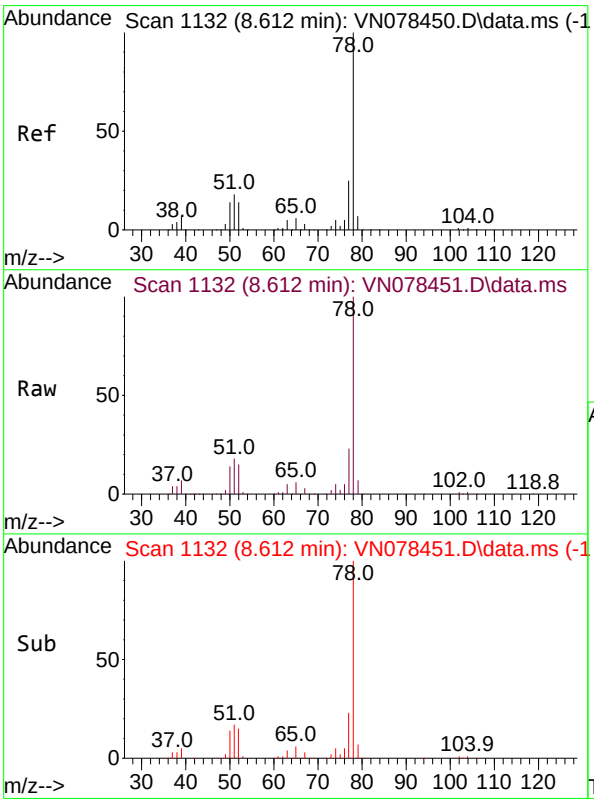
Ion	Ratio	Lower	Upper
83	100		
55	67.8	49.1	73.7
98	46.9	40.6	61.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

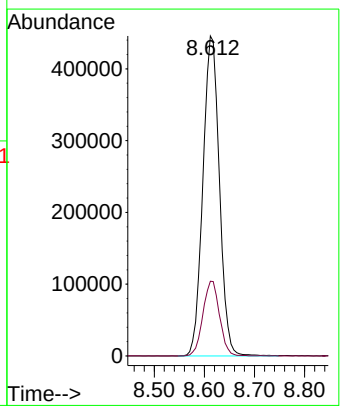


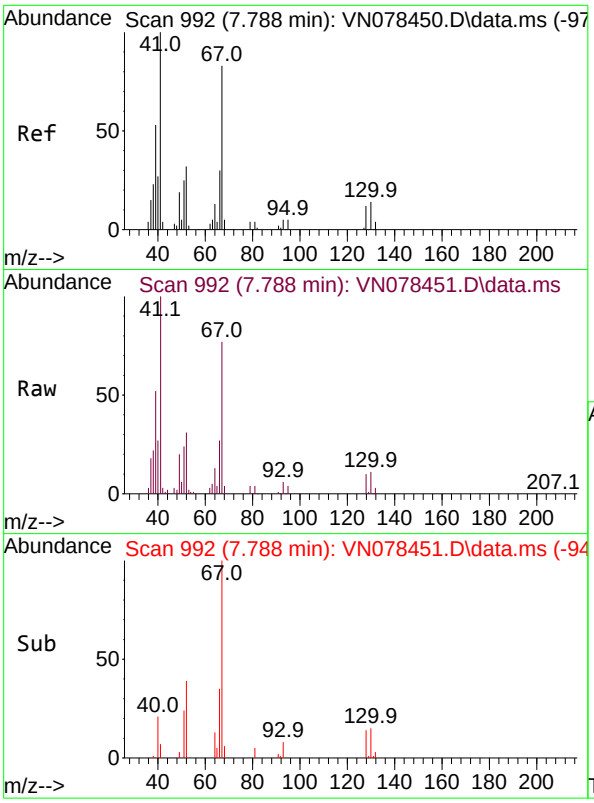


#40
Benzene
Concen: 40.722 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 78 Resp: 1021262

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6

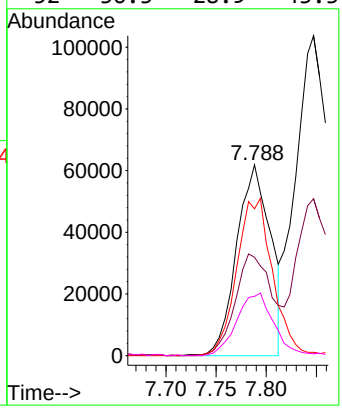




#41
Methacrylonitrile
Concen: 40.342 ug/l
RT: 7.788 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 41 Resp: 14512

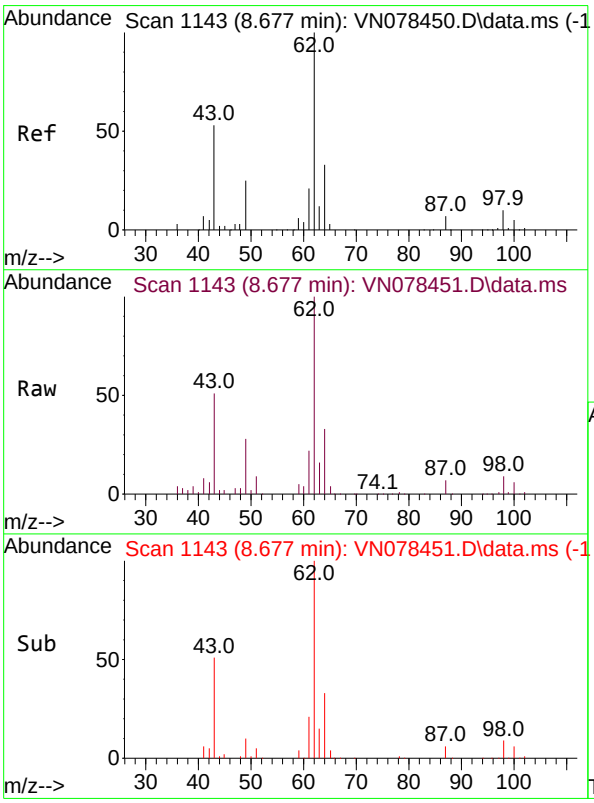
Ion	Ratio	Lower	Upper
41	100		
39	59.8	42.6	64.0
67	87.8	77.5	116.3
52	36.3	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

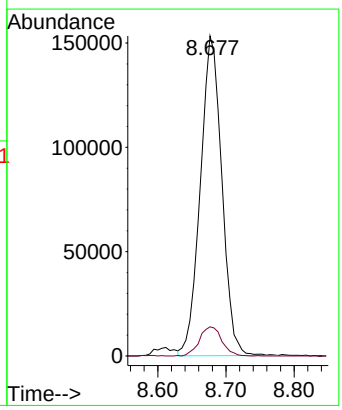
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

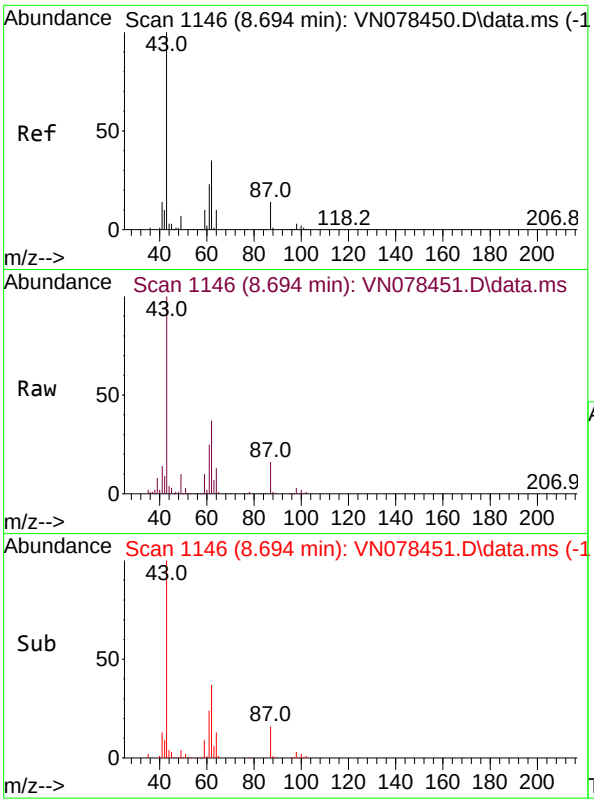


#42
1,2-Dichloroethane
Concen: 39.429 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 62 Resp: 336345

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8





#43
Isopropyl Acetate
Concen: 42.143 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

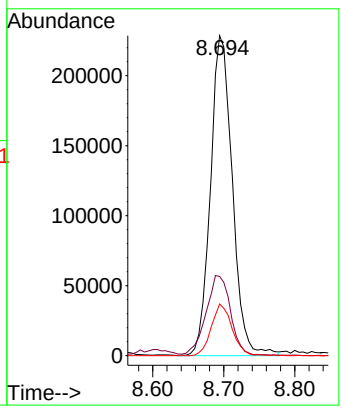
Tgt Ion: 43 Resp: 48962

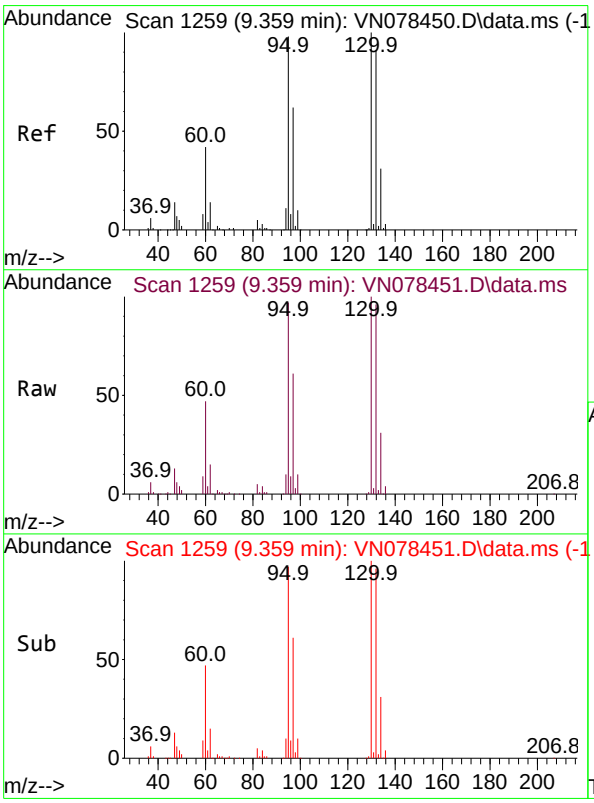
Ion	Ratio	Lower	Upper
43	100		
61	28.0	24.7	37.1
87	15.3	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

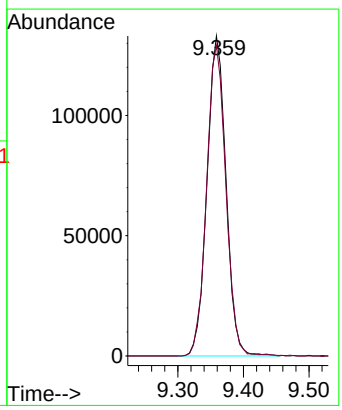


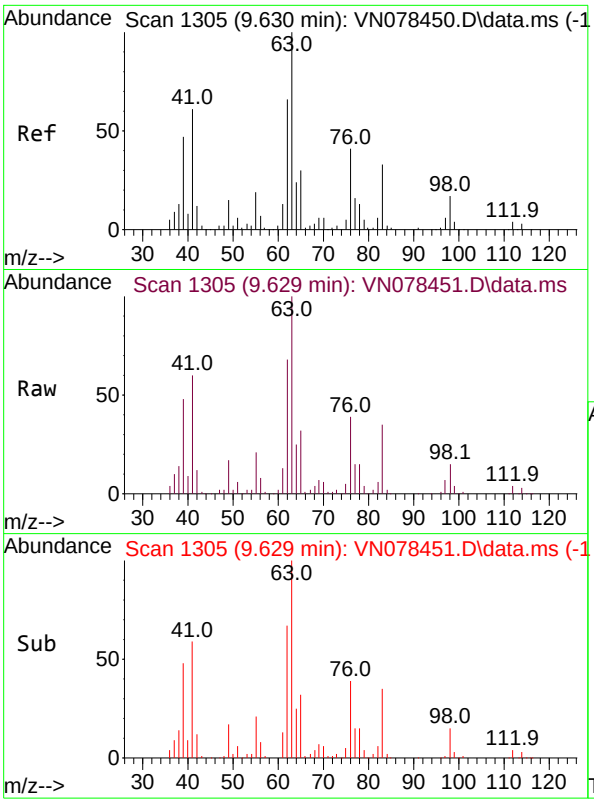


#44
Trichloroethene
Concen: 39.603 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:130 Resp: 267689

Ion	Ratio	Lower	Upper
130	100		
95	97.0	0.0	204.6

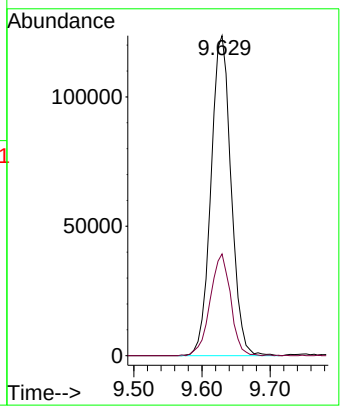




#45
1,2-Dichloropropane
Concen: 40.023 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 63 Resp: 25421

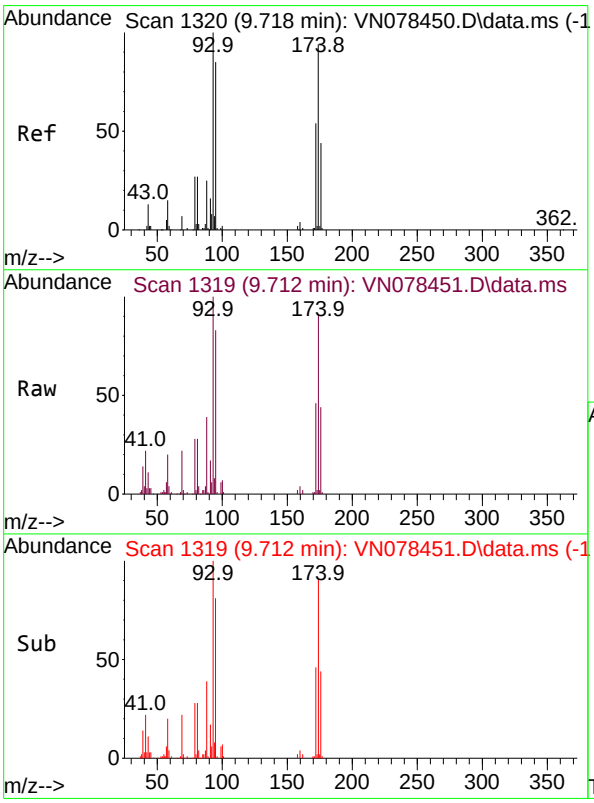
Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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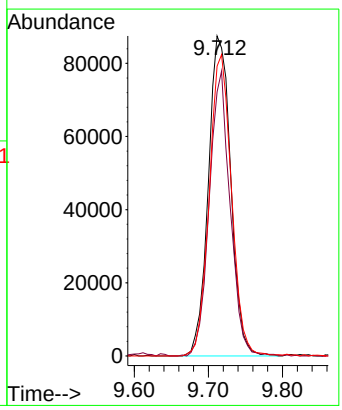
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

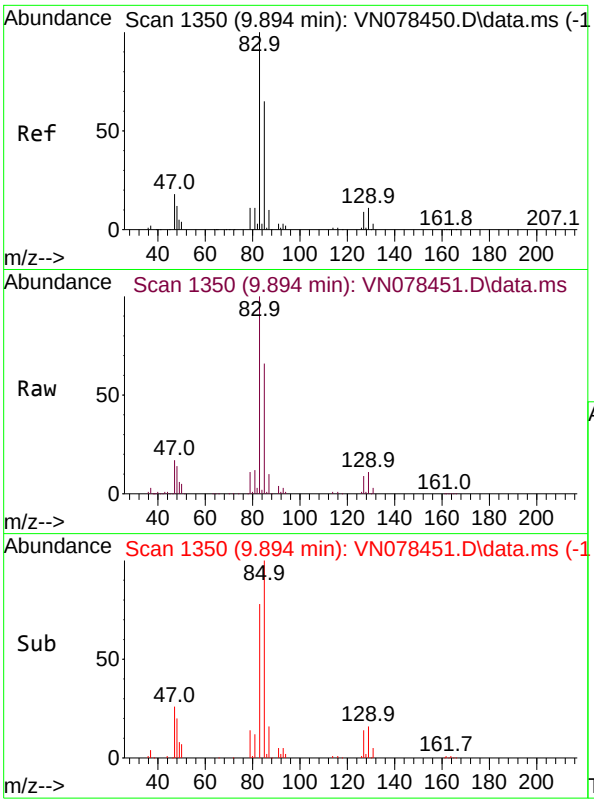


#46
Dibromomethane
Concen: 41.124 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 93 Resp: 183848

Ion	Ratio	Lower	Upper
93	100		
95	82.7	63.8	95.8
174	93.3	65.6	98.4

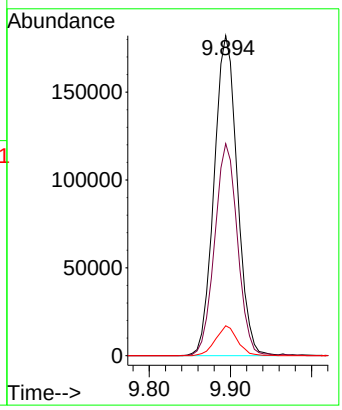




#47
Bromodichloromethane
Concen: 40.259 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 83 Resp: 36078

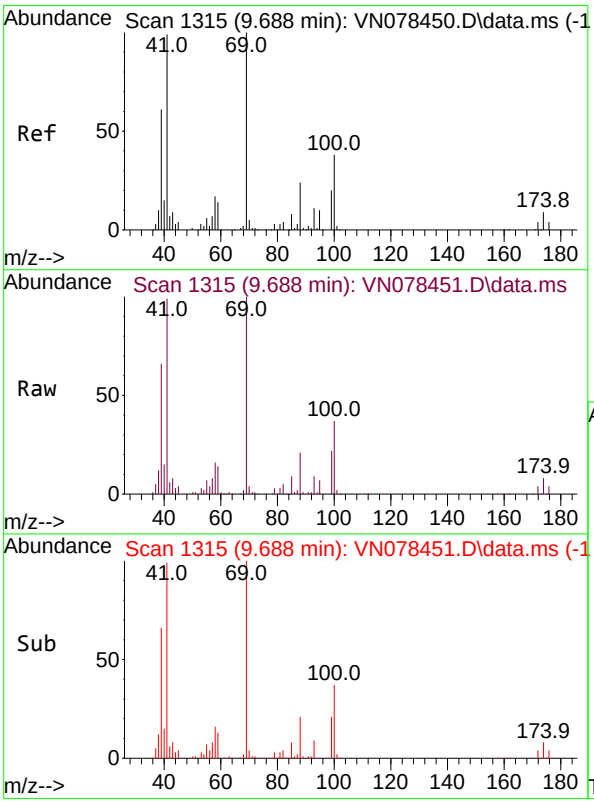
Ion	Ratio	Lower	Upper
83	100		
85	66.2	49.6	74.4
127	9.3	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

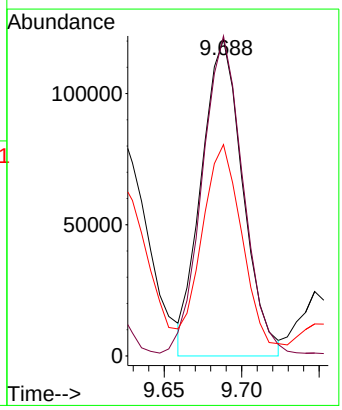
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

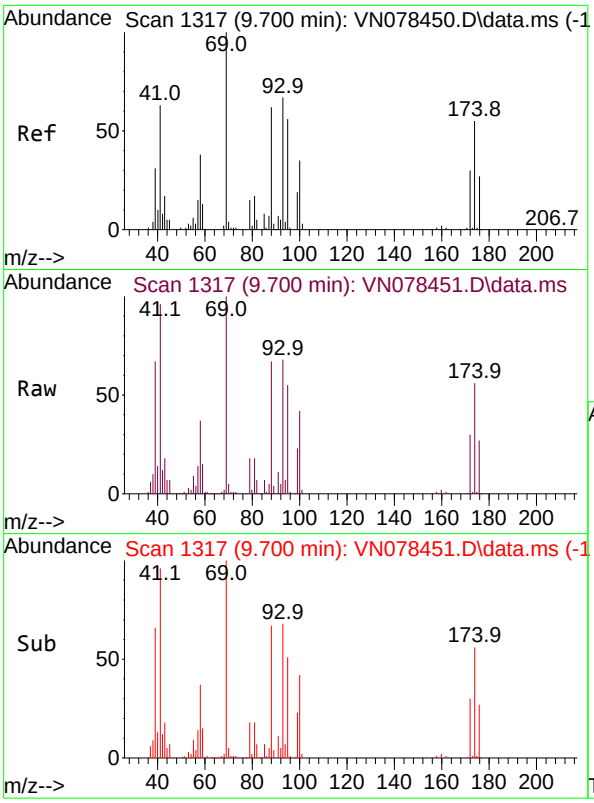


#48
Methyl methacrylate
Concen: 41.499 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 41 Resp: 223368

Ion	Ratio	Lower	Upper
41	100		
69	100.6	90.4	135.6
39	66.4	54.6	81.8

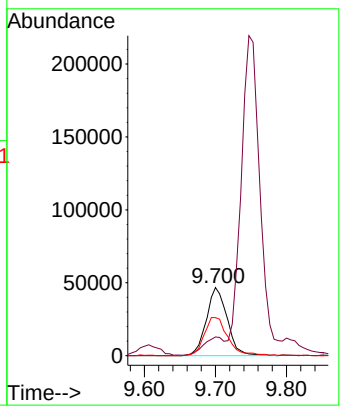




#49
1,4-Dioxane
Concen: 810.969 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 88 Resp: 9519

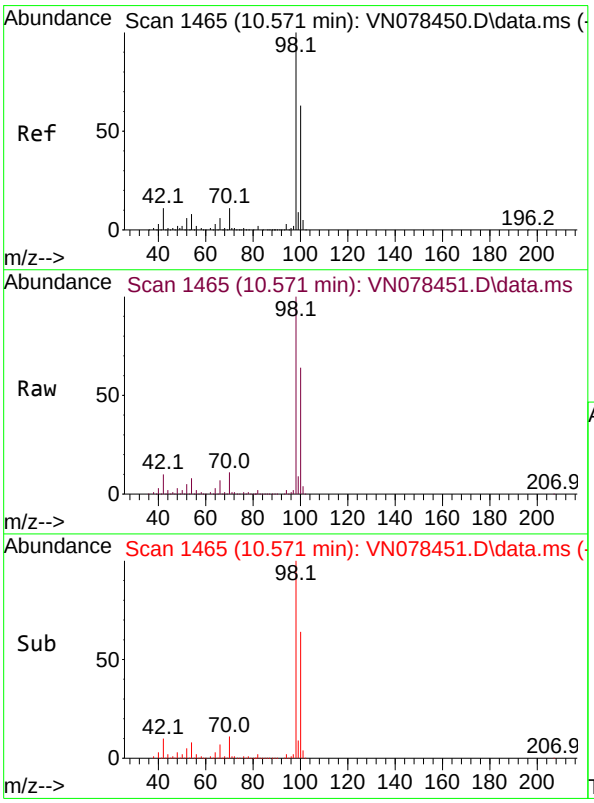
Ion	Ratio	Lower	Upper
88	100		
43	25.2	17.0	25.6
58	64.2	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

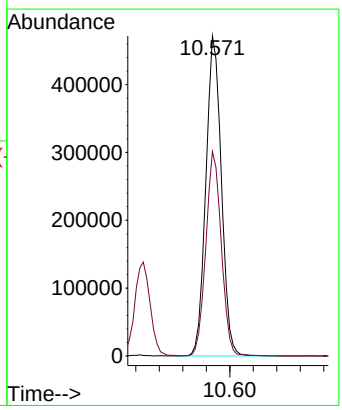
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

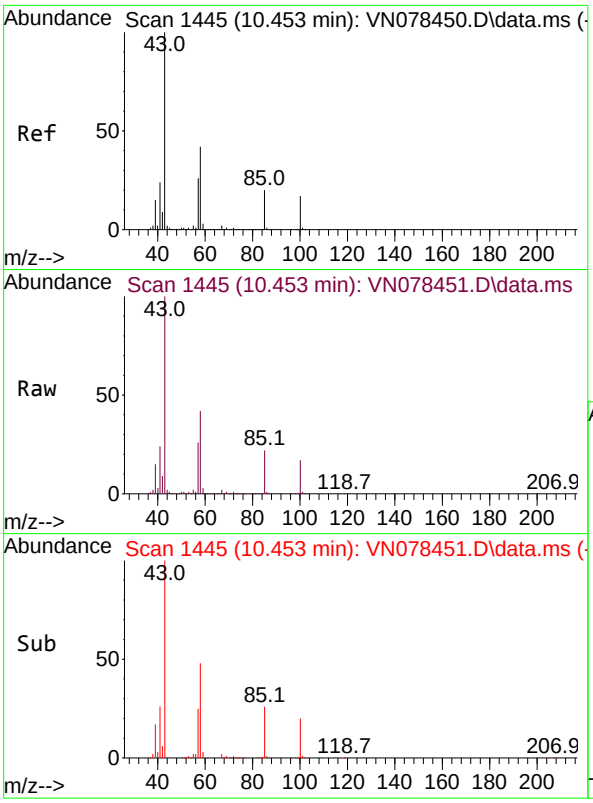


#50
Toluene-d8
Concen: 38.902 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 98 Resp: 861588

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 213.353 ug/l
RT: 10.453 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

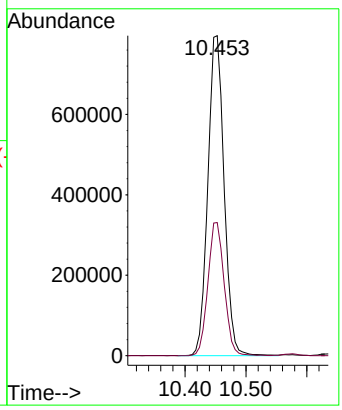
Tgt Ion: 43 Resp: 147439

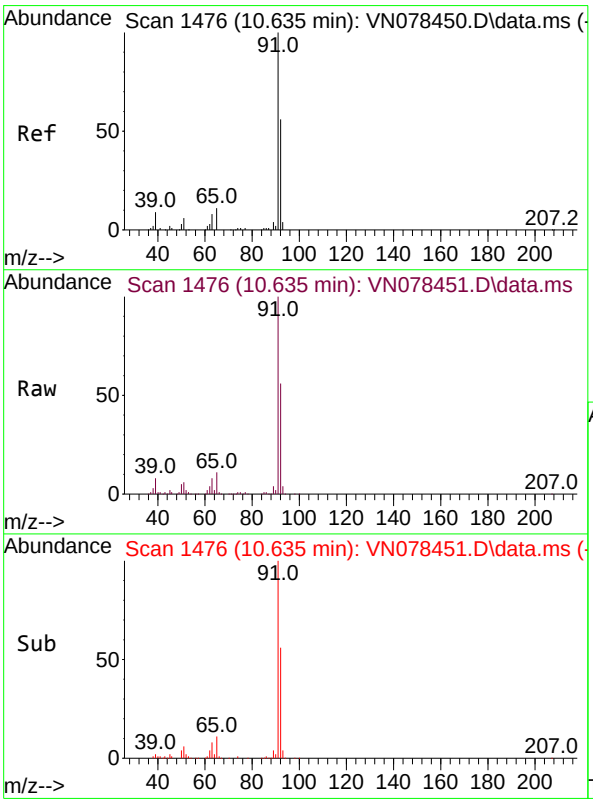
Ion	Ratio	Lower	Upper
43	100		
58	41.8	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

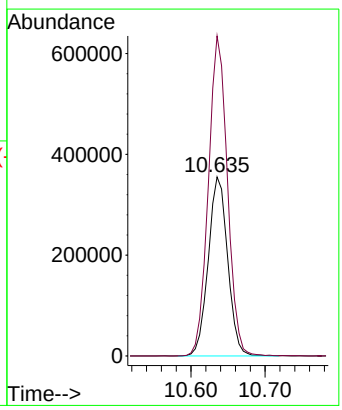


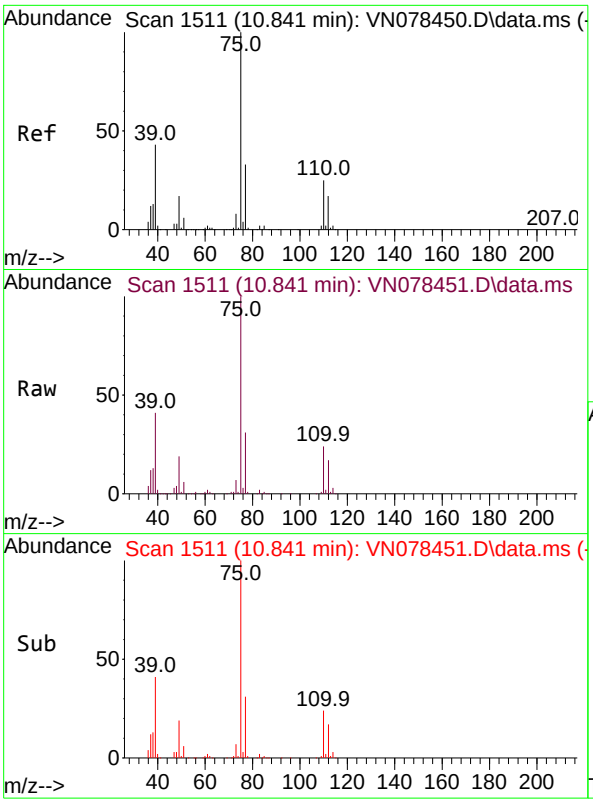


#52
Toluene
Concen: 41.587 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 92 Resp: 646394

Ion	Ratio	Lower	Upper
92	100		
91	175.6	137.4	206.0

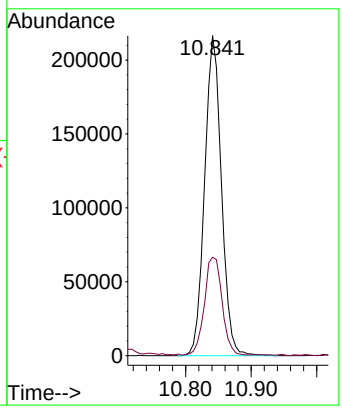




#53
t-1,3-Dichloropropene
Concen: 41.920 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 75 Resp: 38486

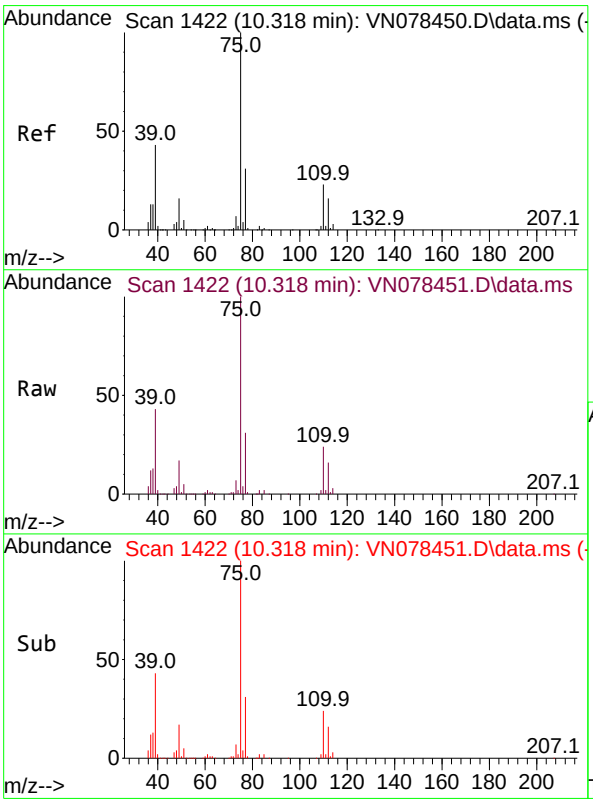
Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

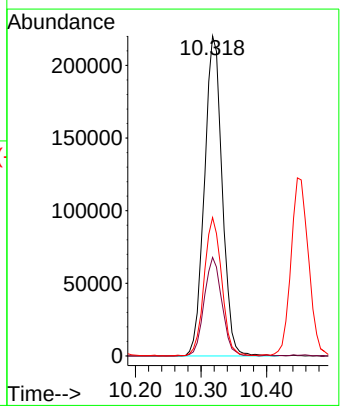
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

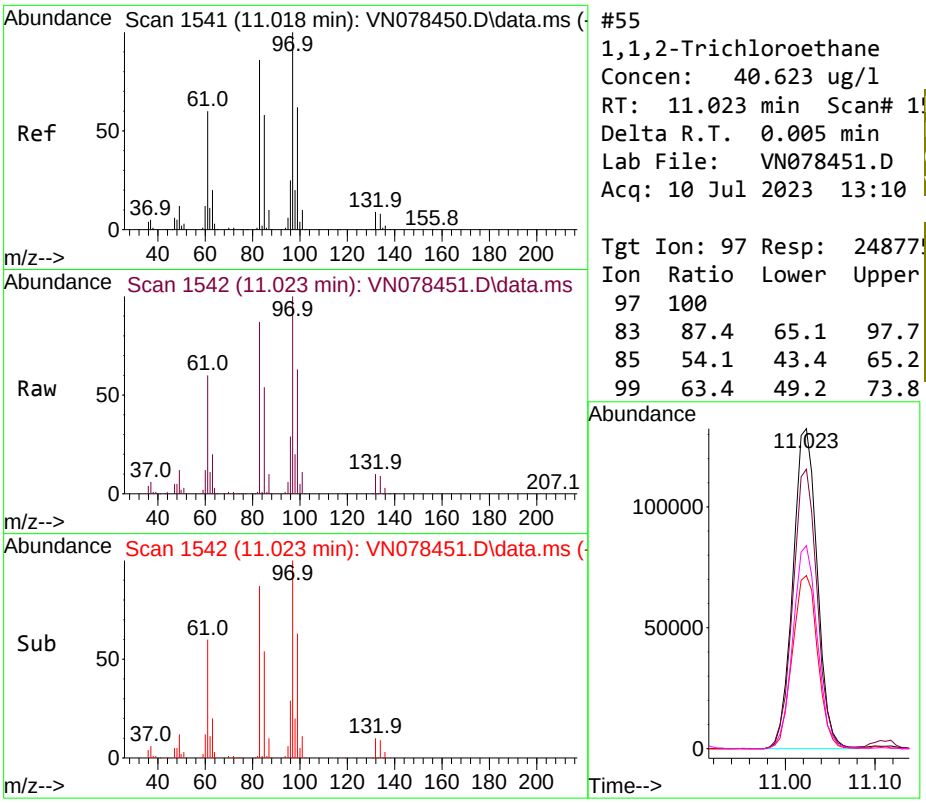


#54
cis-1,3-Dichloropropene
Concen: 42.447 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 75 Resp: 415396

Ion	Ratio	Lower	Upper
75	100		
77	30.7	26.1	39.1
39	43.0	31.6	47.4





#55
1,1,2-Trichloroethane
Concen: 40.623 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

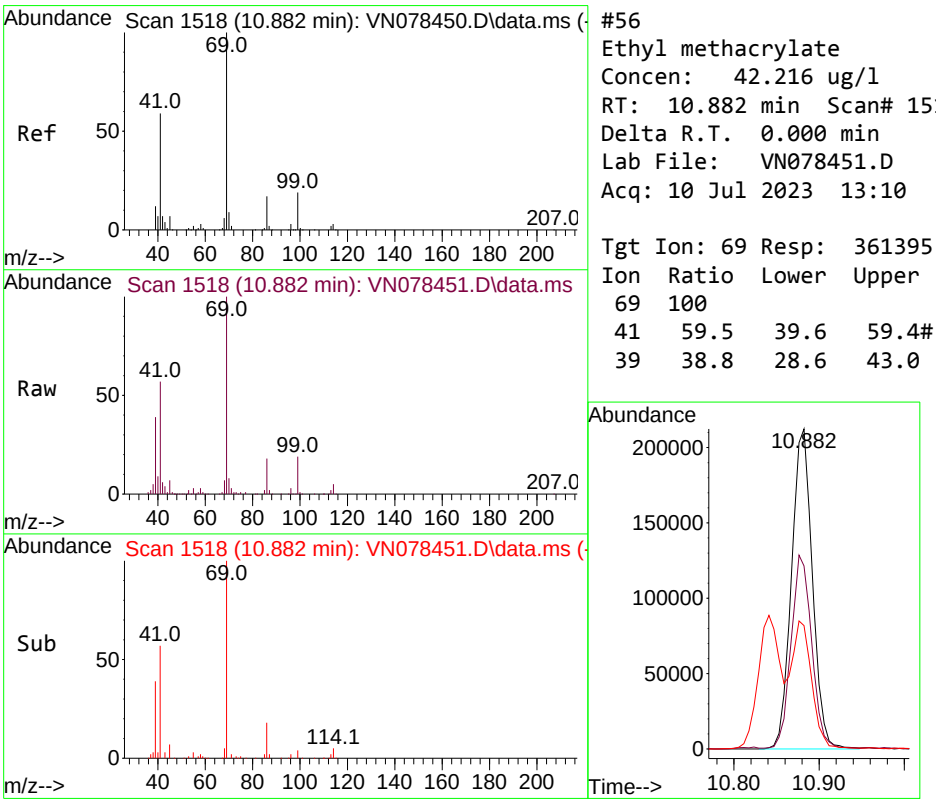
Tgt Ion: 97 Resp: 24877

Ion	Ratio	Lower	Upper
97	100		
83	87.4	65.1	97.7
85	54.1	43.4	65.2
99	63.4	49.2	73.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

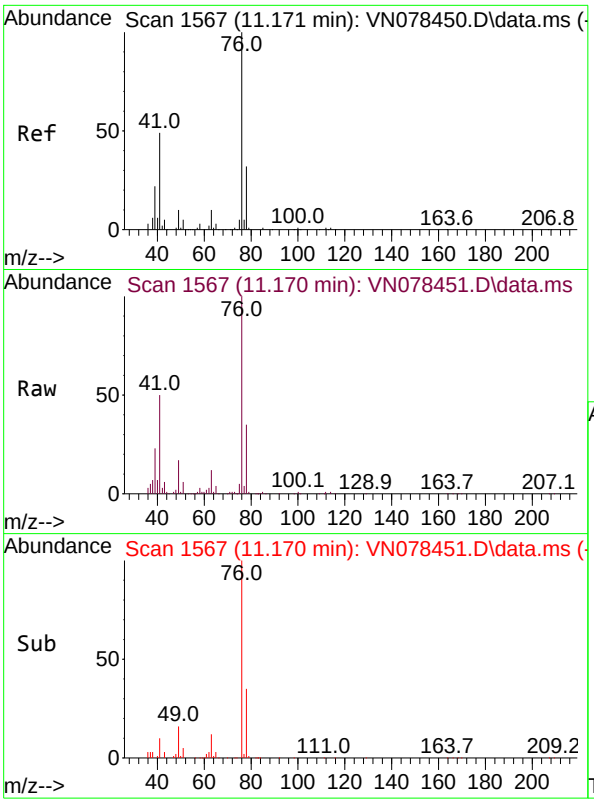
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#56
Ethyl methacrylate
Concen: 42.216 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 69 Resp: 361395

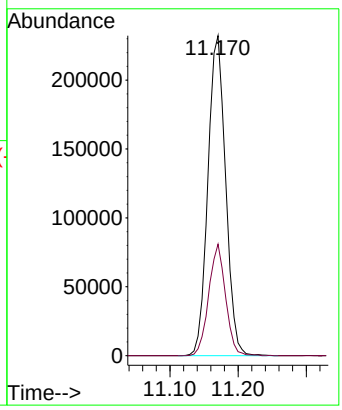
Ion	Ratio	Lower	Upper
69	100		
41	59.5	39.6	59.4#
39	38.8	28.6	43.0



#57
1,3-Dichloropropane
Concen: 40.345 ug/l
RT: 11.170 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 76 Resp: 42009

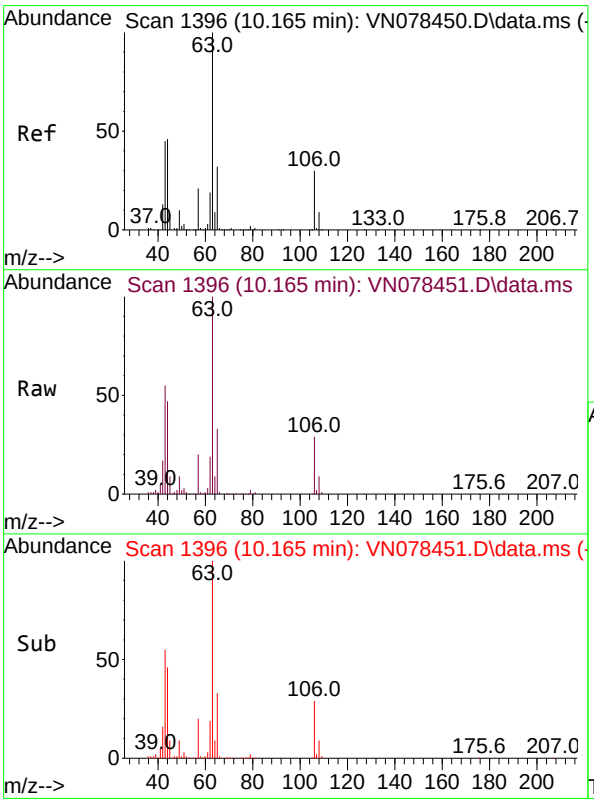
Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

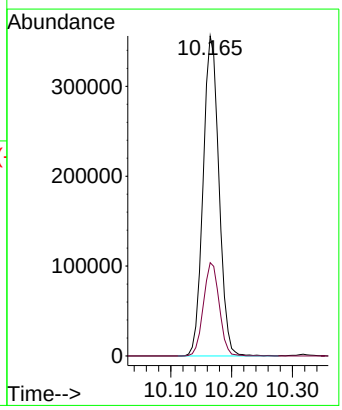
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

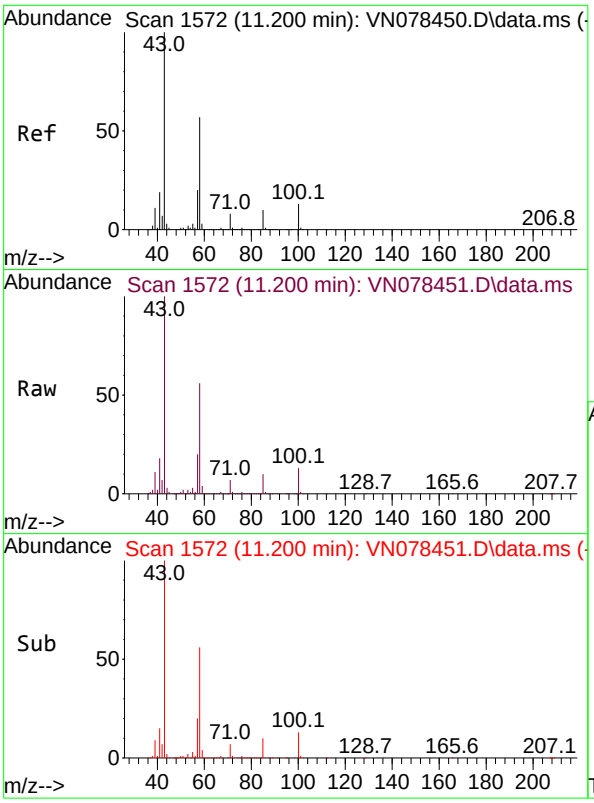


#58
2-Chloroethyl Vinyl ether
Concen: 211.125 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 63 Resp: 644098

Ion	Ratio	Lower	Upper
63	100		
106	29.1	26.2	39.4





#59
2-Hexanone
Concen: 215.235 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

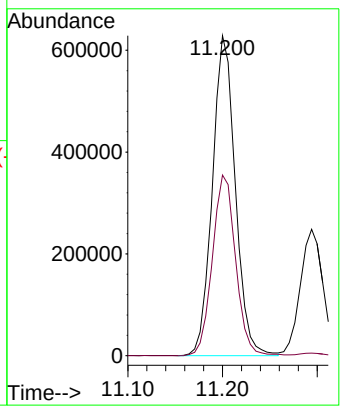
Tgt Ion: 43 Resp: 105710

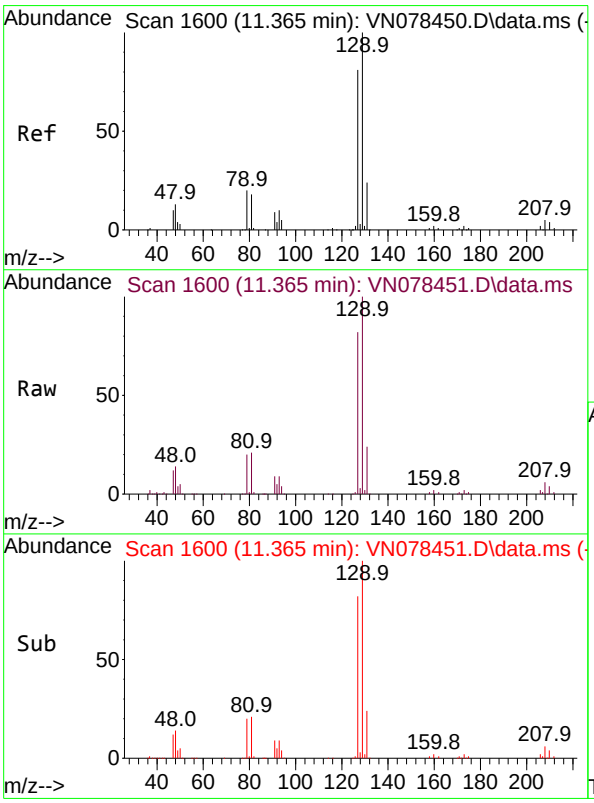
Ion	Ratio	Lower	Upper
43	100		
58	57.2	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

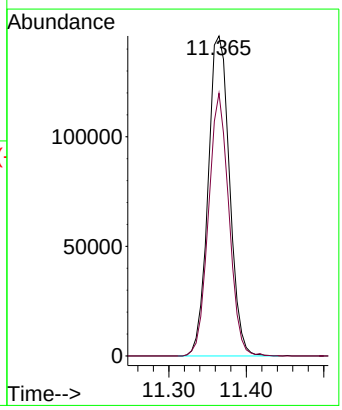


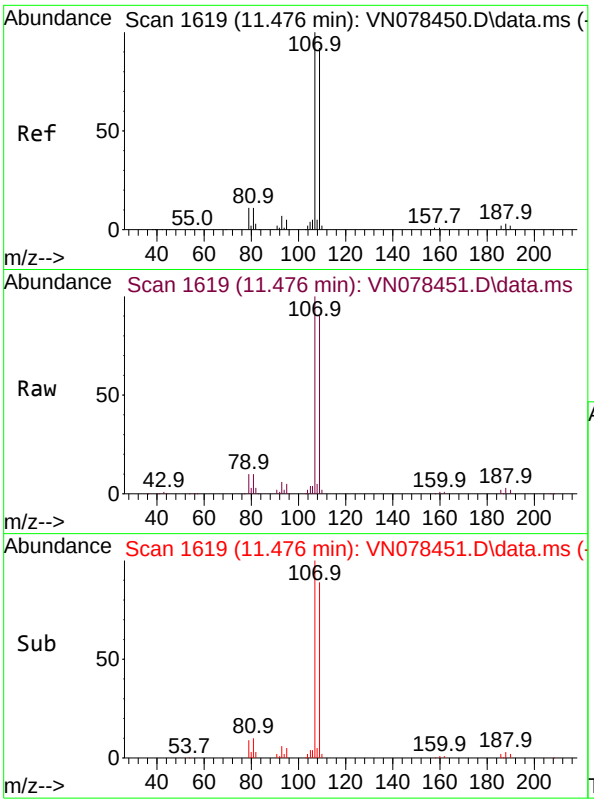


#60
Dibromochloromethane
Concen: 41.469 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:129 Resp: 280365

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.6	116.0





#61
1,2-Dibromoethane
Concen: 41.745 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

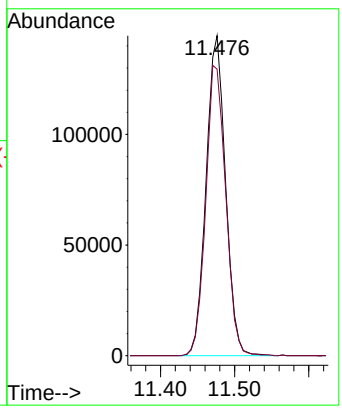
Tgt Ion:107 Resp: 26335

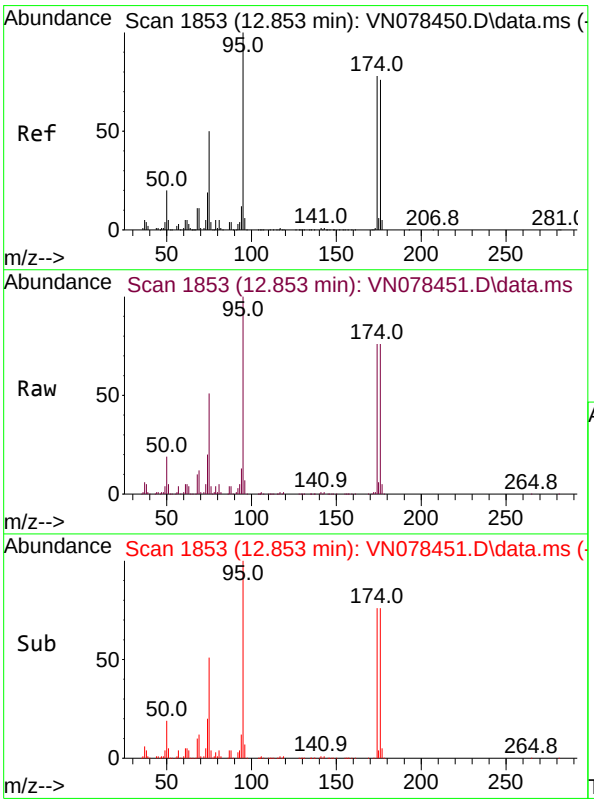
Ion	Ratio	Lower	Upper
107	100		
109	93.1	76.6	114.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

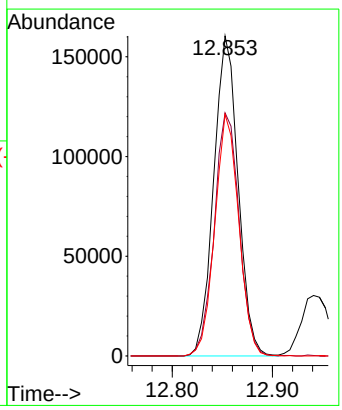


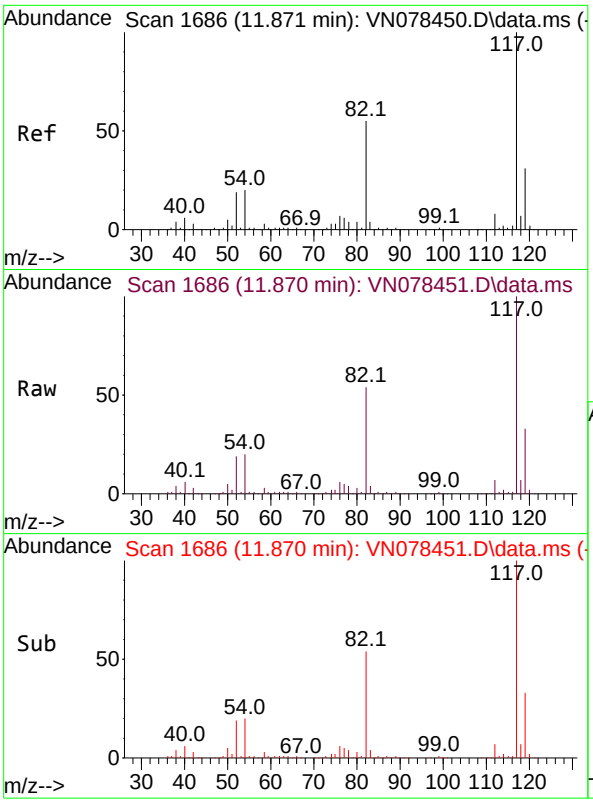


#62
4-Bromofluorobenzene
Concen: 39.701 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 95 Resp: 270837

Ion	Ratio	Lower	Upper
95	100		
174	77.4	0.0	143.8
176	74.3	0.0	135.8

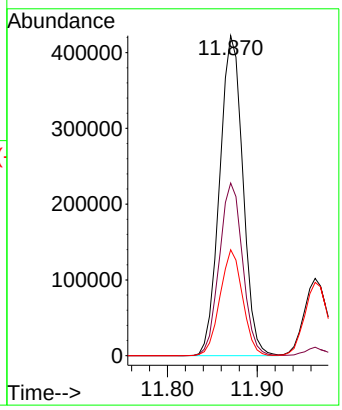




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:117 Resp: 75951

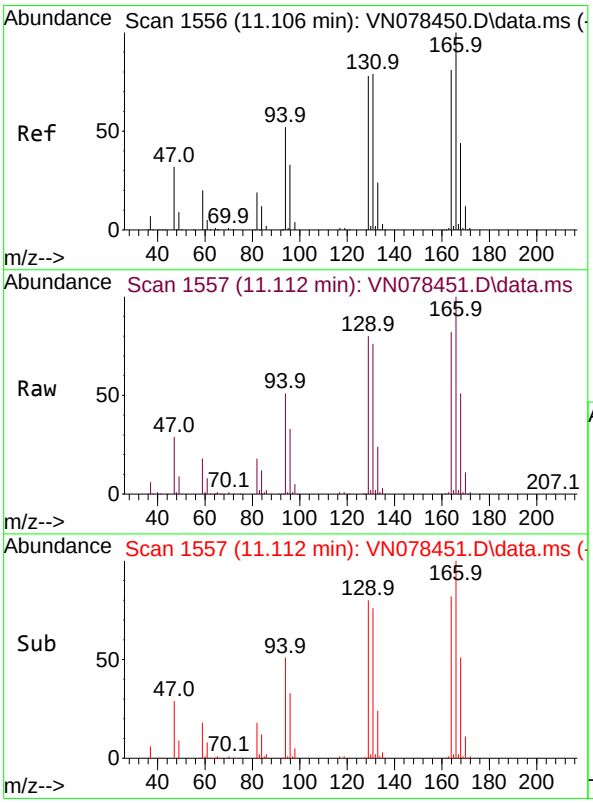
Ion	Ratio	Lower	Upper
117	100		
82	53.9	44.0	66.0
119	33.1	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

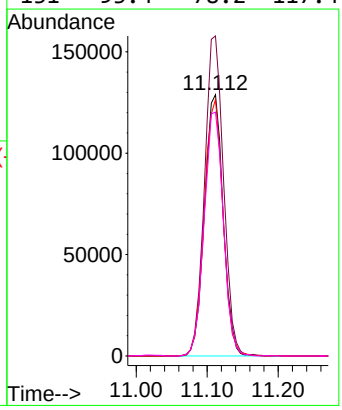
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

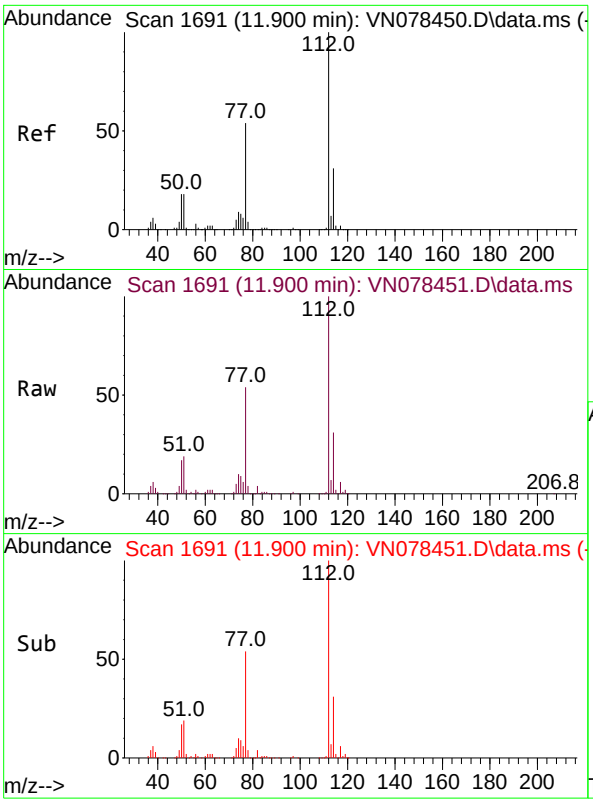


#64
Tetrachloroethene
Concen: 41.431 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:164 Resp: 236578

Ion	Ratio	Lower	Upper
164	100		
166	122.5	101.4	152.0
129	98.2	82.4	123.6
131	93.4	78.2	117.4

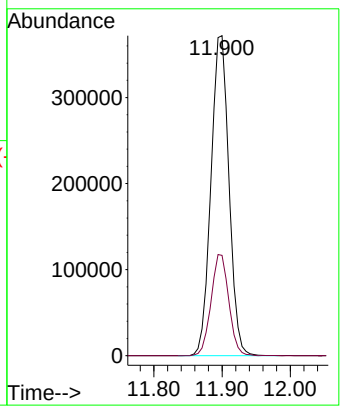




#65
Chlorobenzene
Concen: 40.221 ug/l
RT: 11.900 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:112 Resp: 68283

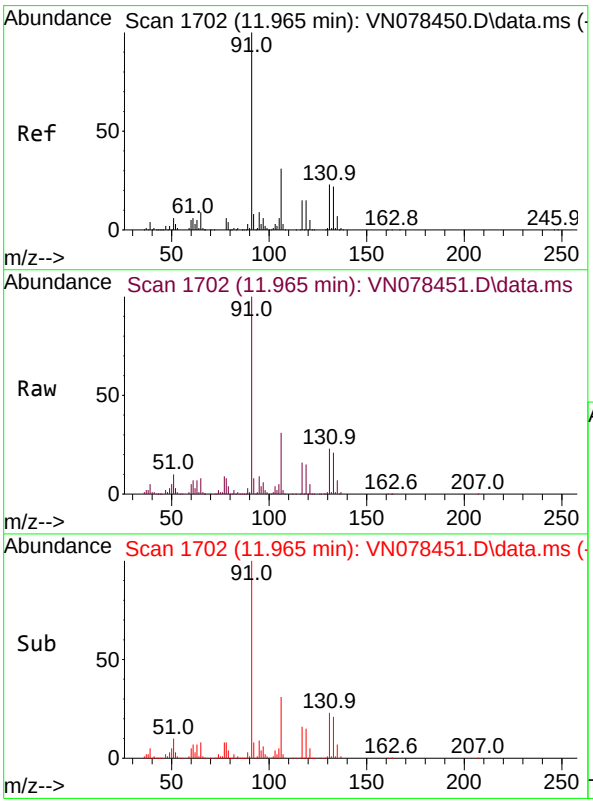
Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

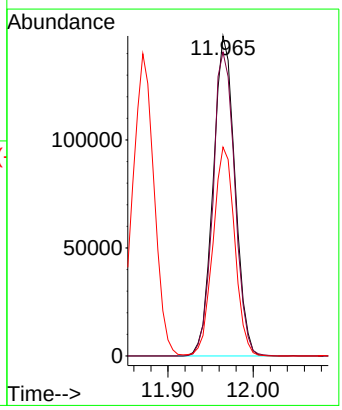
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

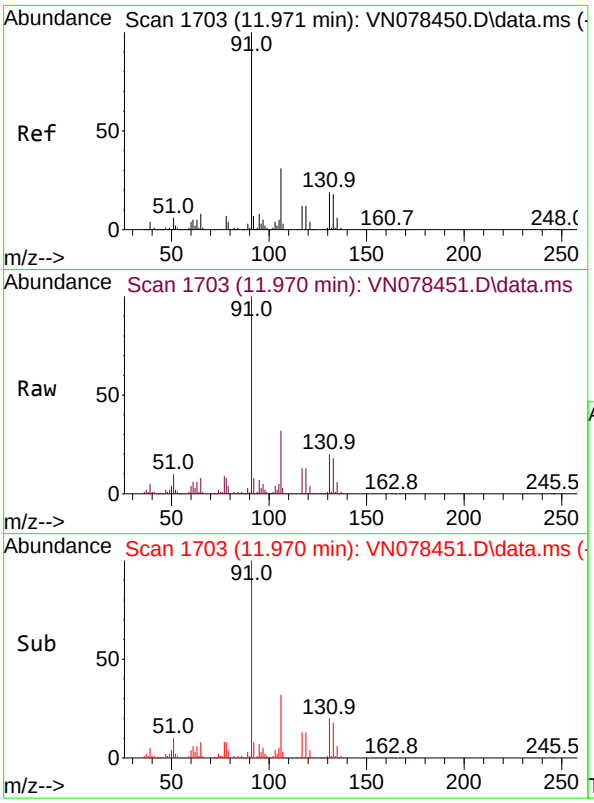


#66
1,1,1,2-Tetrachloroethane
Concen: 40.437 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:131 Resp: 264094

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.4	139.1
119	65.0	34.1	102.2

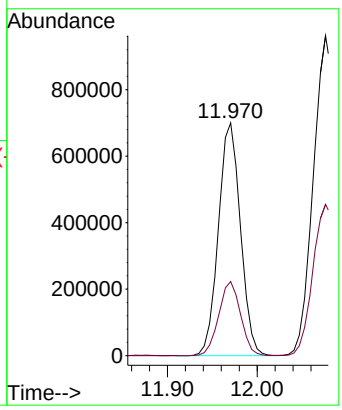




#67
Ethyl Benzene
Concen: 41.605 ug/l
RT: 11.970 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 91 Resp: 119391

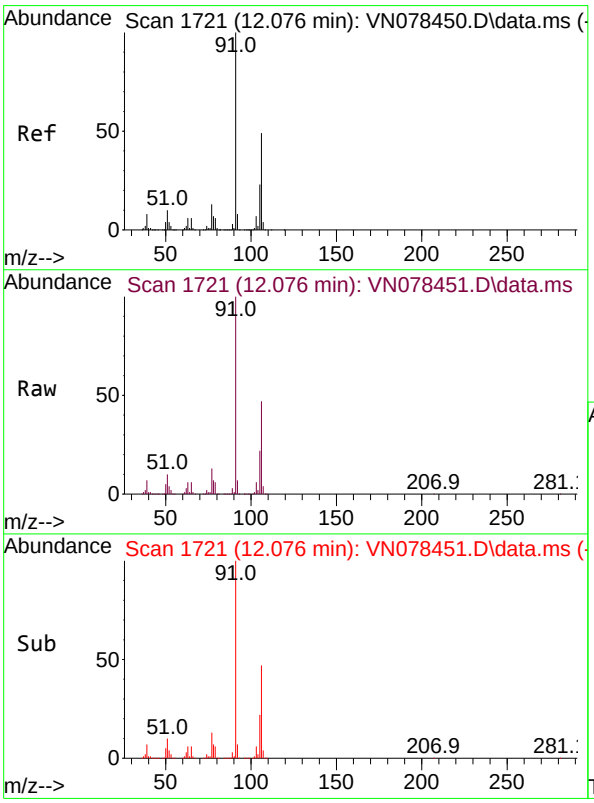
Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

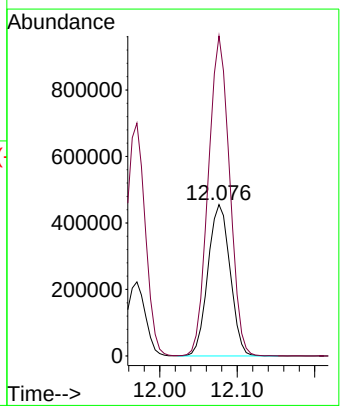
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

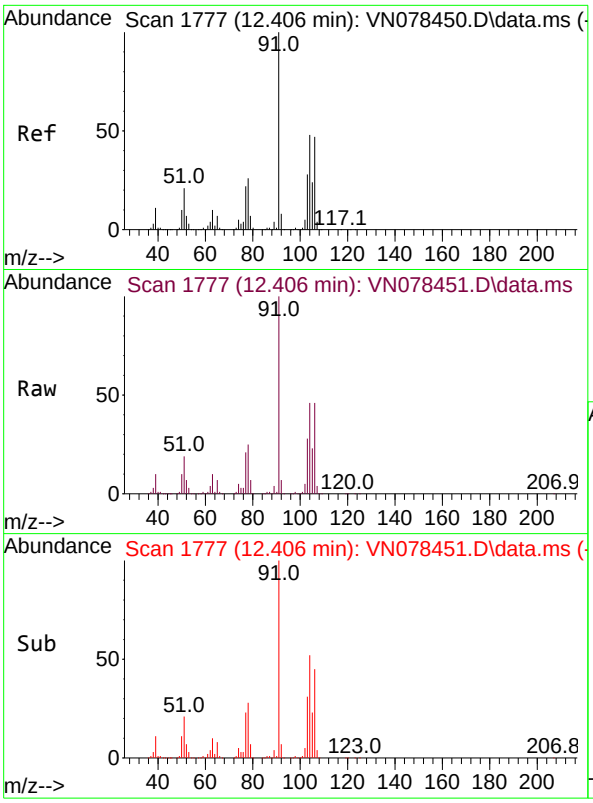


#68
m/p-Xylenes
Concen: 85.335 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:106 Resp: 905406

Ion	Ratio	Lower	Upper
106	100		
91	204.1	159.6	239.4





#69
o-Xylene
Concen: 41.088 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

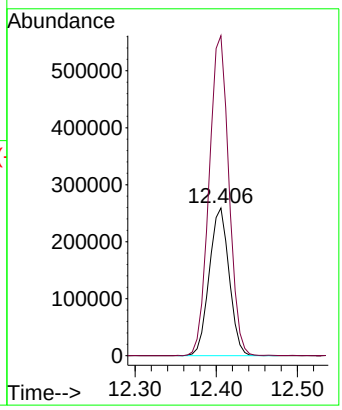
Tgt Ion:106 Resp: 44032

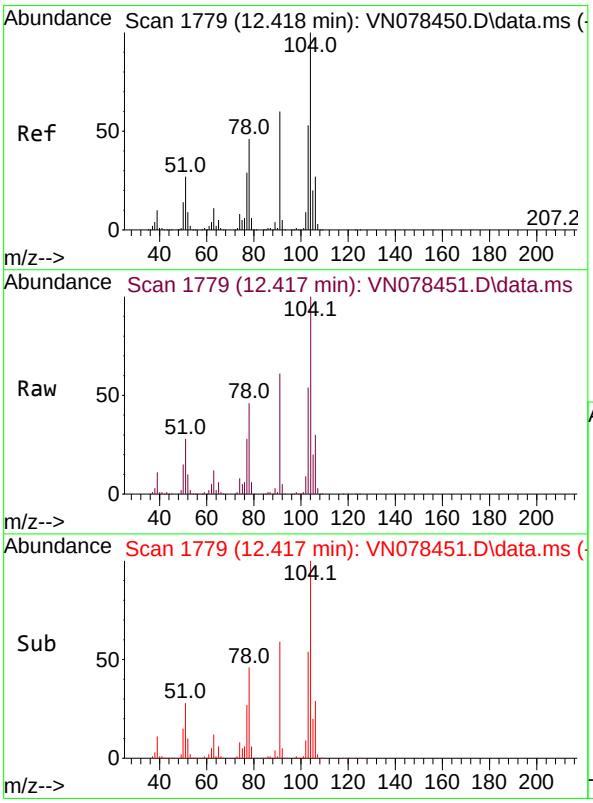
Ion	Ratio	Lower	Upper
106	100		
91	216.1	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

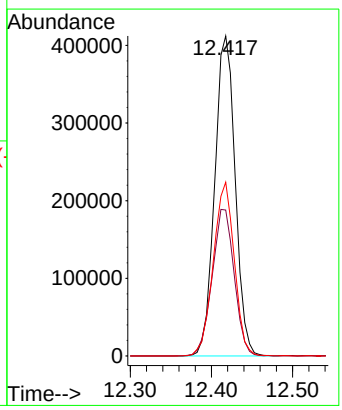


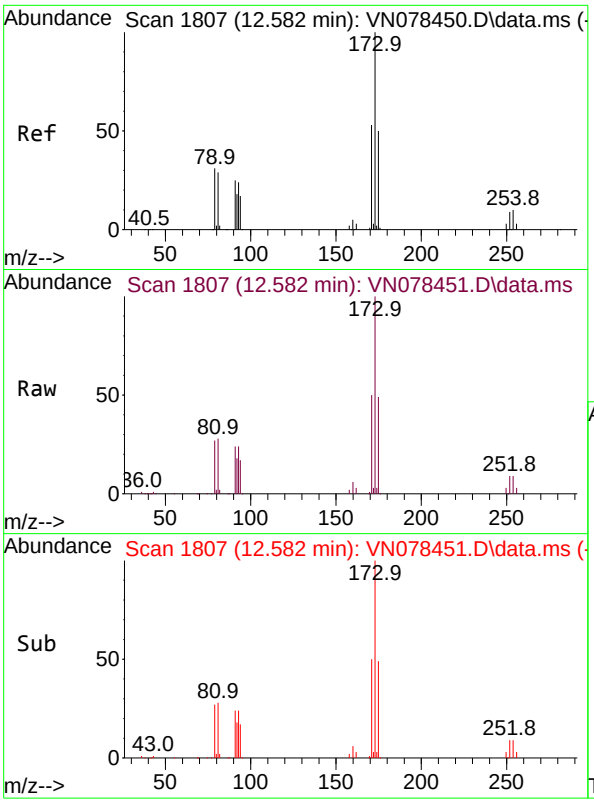


#70
Styrene
Concen: 43.130 ug/l
RT: 12.417 min Scan# 1779
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:104 Resp: 723105

Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.5	59.3
103	55.7	43.2	64.8

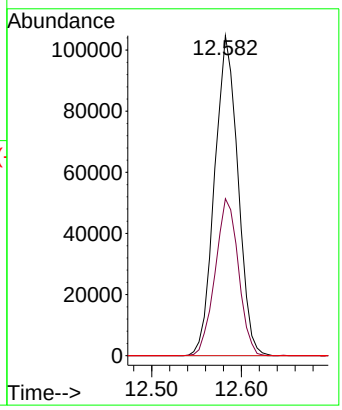




#71
Bromoform
Concen: 42.673 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:173 Resp: 18875

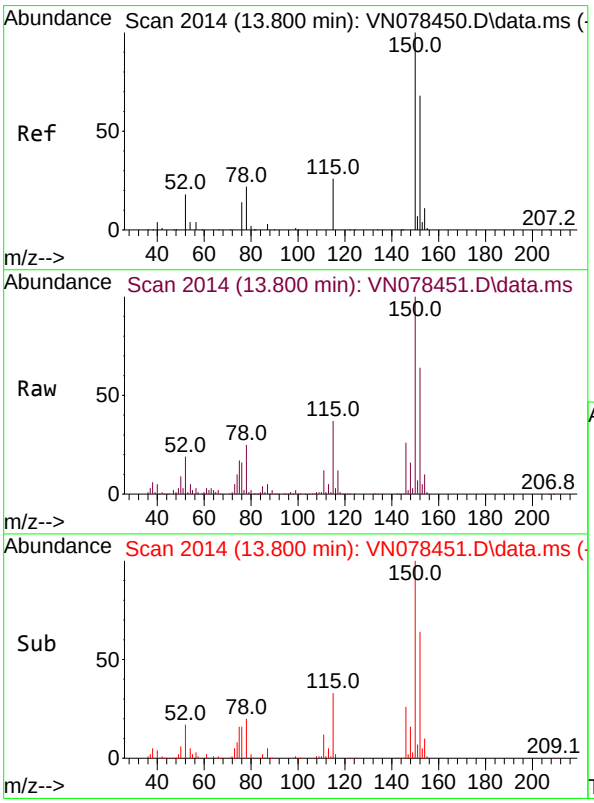
Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

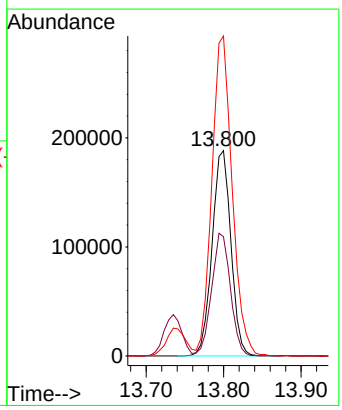
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

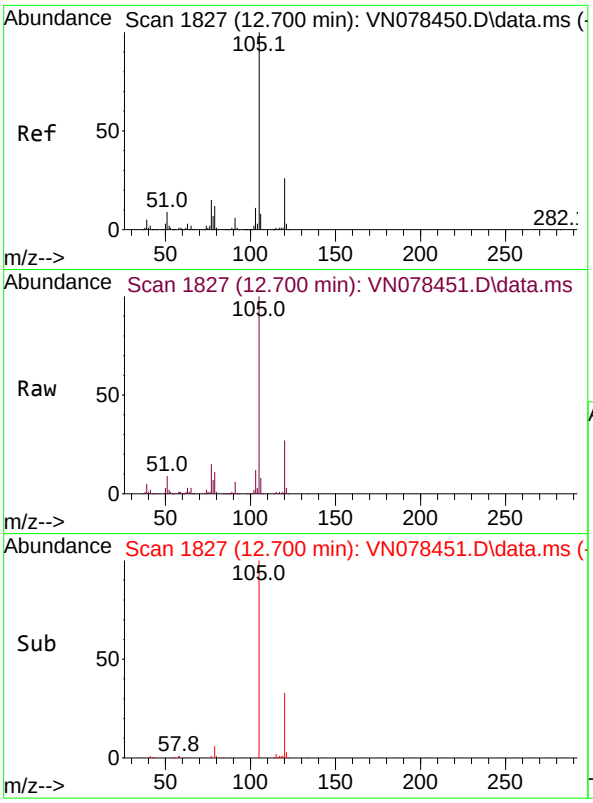


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:152 Resp: 317914

Ion	Ratio	Lower	Upper
152	100		
115	59.7	32.3	96.8
150	167.6	0.0	355.8

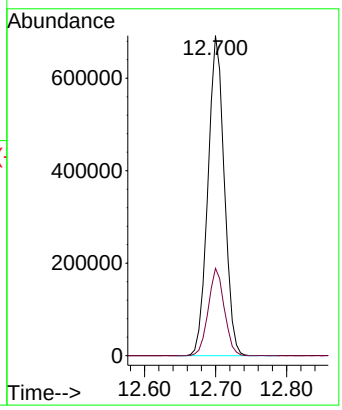




#73
Isopropylbenzene
Concen: 36.984 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:105 Resp: 110481

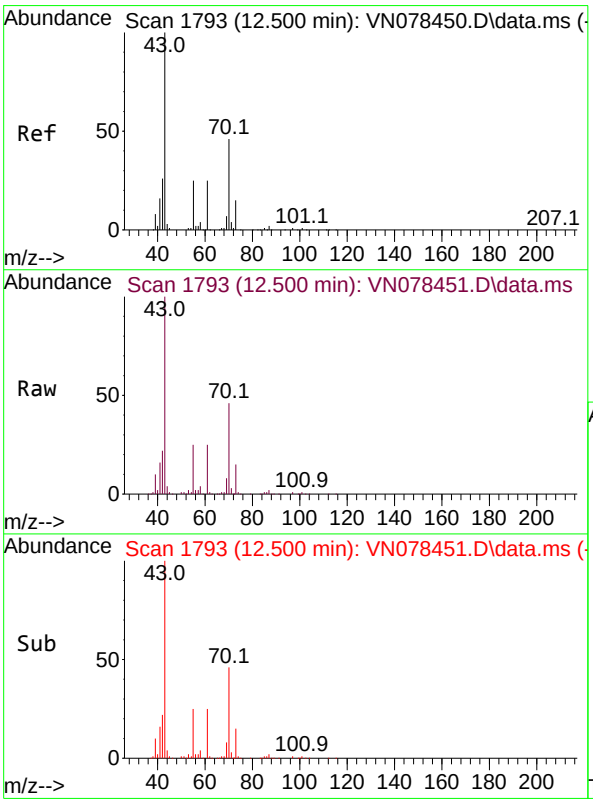
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

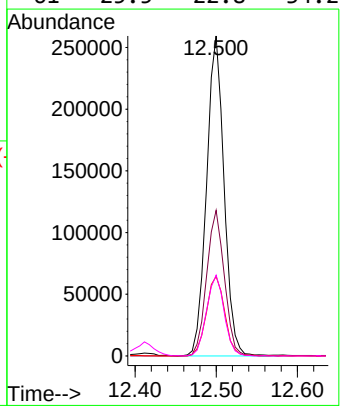
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

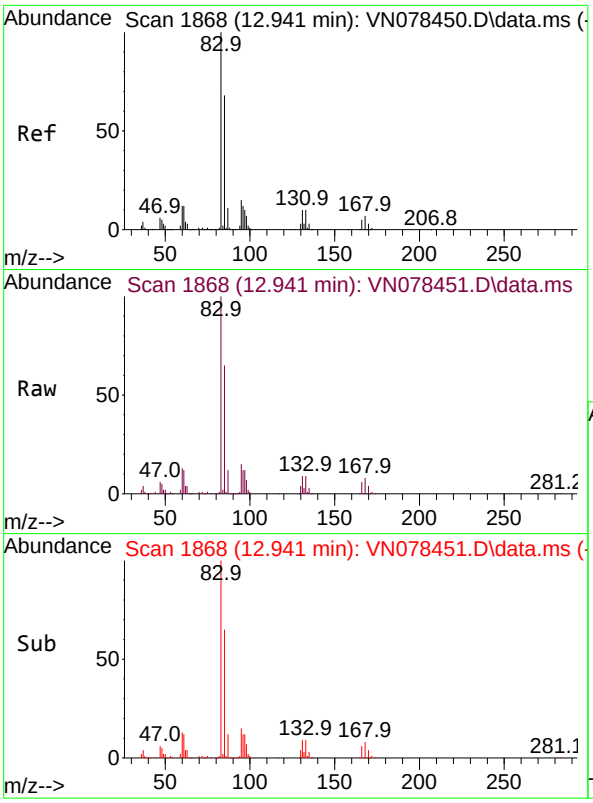


#74
N-amyl acetate
Concen: 37.727 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 43 Resp: 388381

Ion	Ratio	Lower	Upper
43	100		
70	45.9	43.4	65.2
55	26.1	21.4	32.0
61	25.5	22.8	34.2

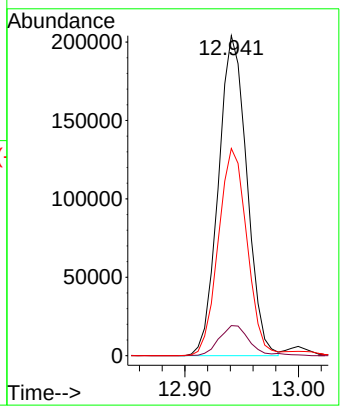




#75
1,1,2,2-Tetrachloroethane
Concen: 42.076 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 83 Resp: 35515

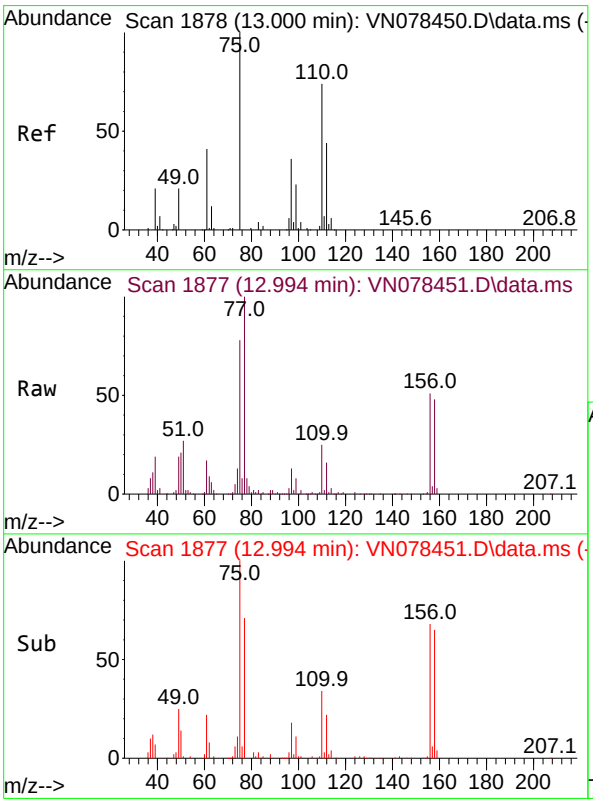
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	15.0
85	65.4	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

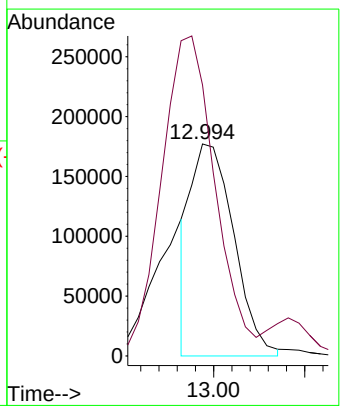
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

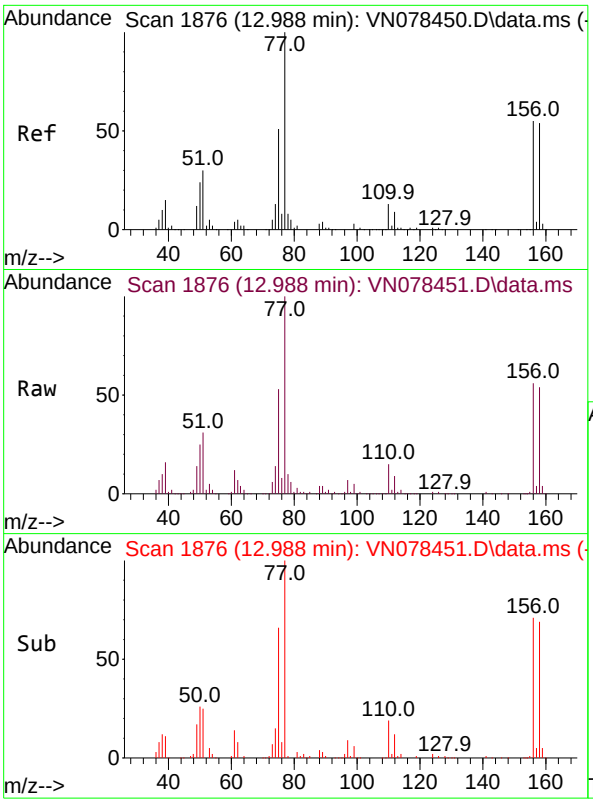


#76
1,2,3-Trichloropropane
Concen: 37.872 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 75 Resp: 290690

Ion	Ratio	Lower	Upper
75	100		
77	188.3	84.5	253.5

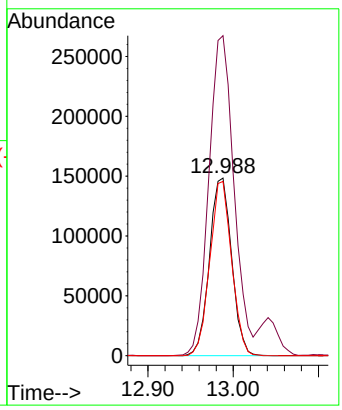




#77
Bromobenzene
Concen: 41.006 ug/l
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:156 Resp: 26818

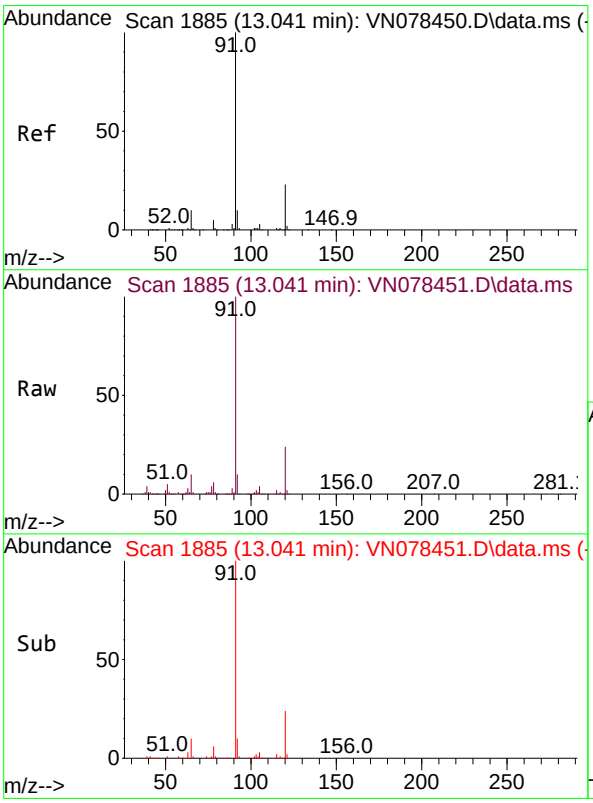
Ion	Ratio	Lower	Upper
156	100		
77	204.1	107.7	323.3
158	96.2	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

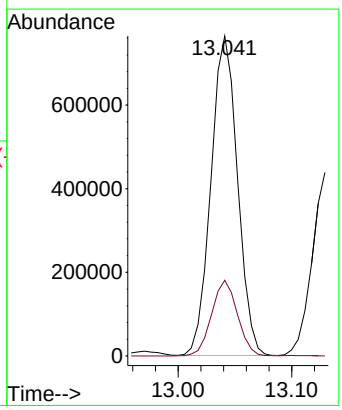
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

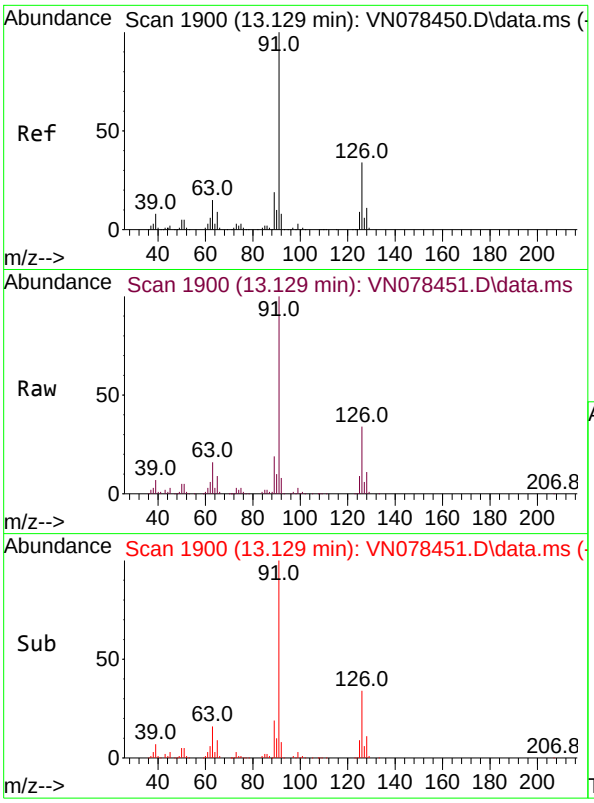


#78
n-propylbenzene
Concen: 38.892 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 91 Resp: 1242491

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4

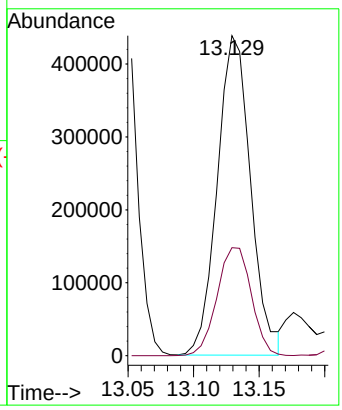




#79
2-Chlorotoluene
Concen: 37.042 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 91 Resp: 77512

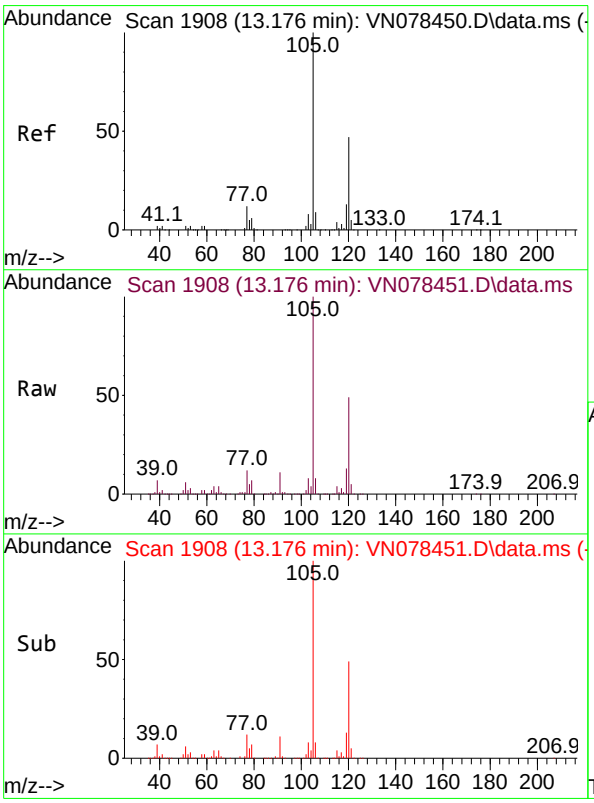
Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

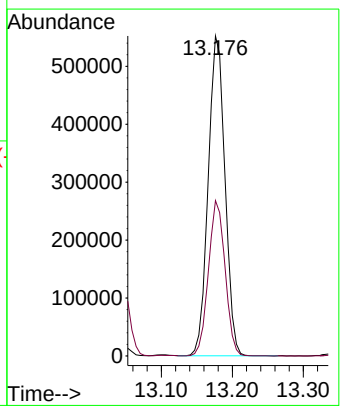
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

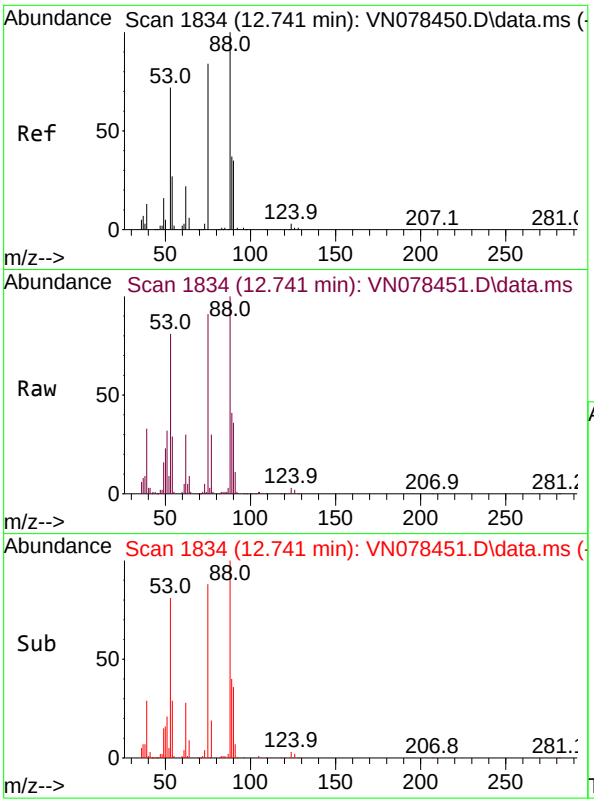


#80
1,3,5-Trimethylbenzene
Concen: 38.381 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:105 Resp: 905907

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 37.191 ug/l
RT: 12.741 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

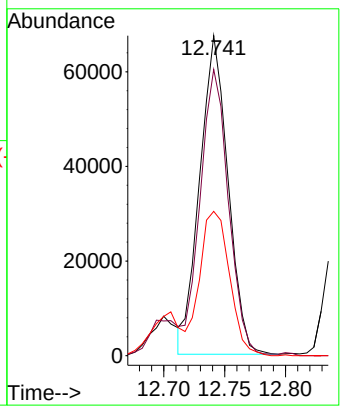
Tgt Ion: 75 Resp: 10875

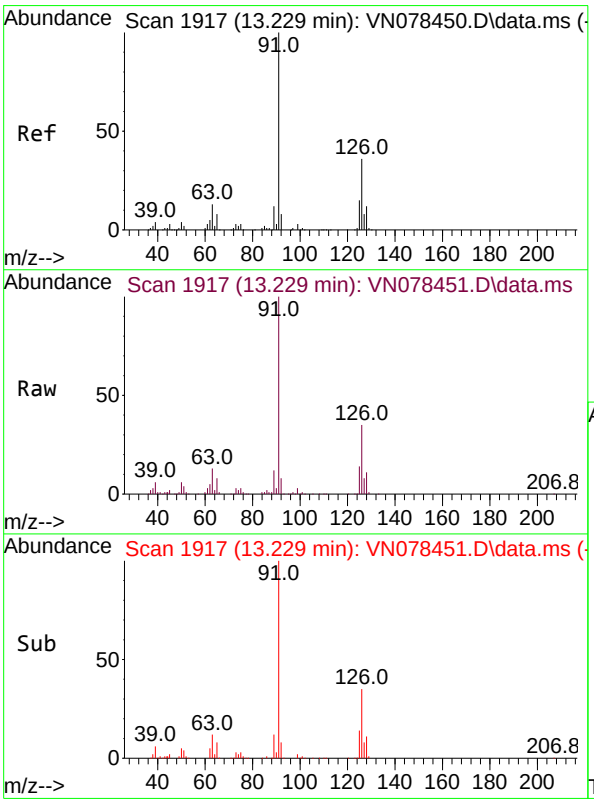
Ion	Ratio	Lower	Upper
75	100		
53	90.1	67.4	101.2
89	47.7	38.8	58.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

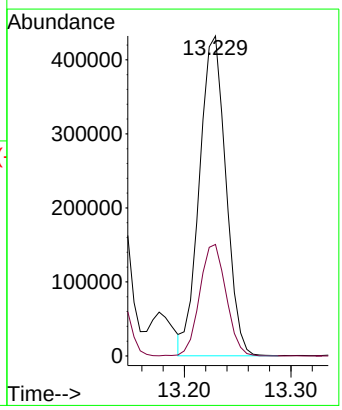


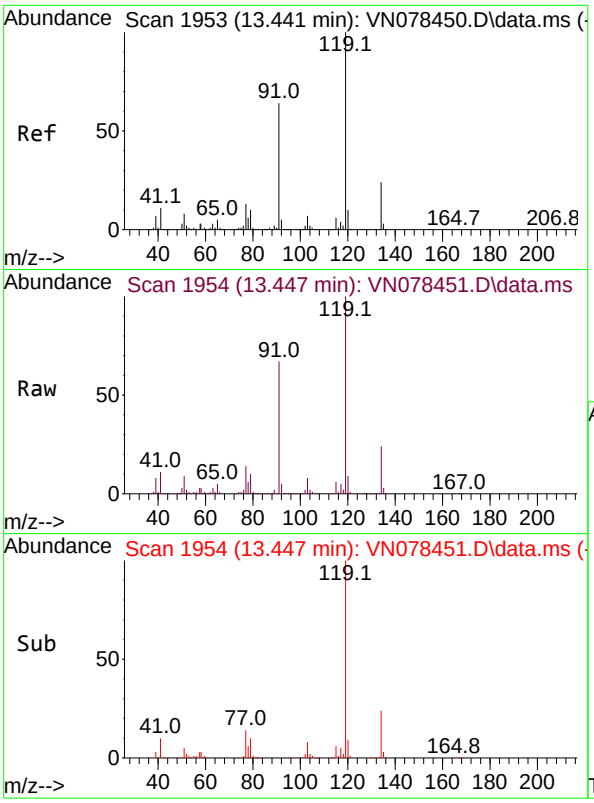


#82
4-Chlorotoluene
Concen: 38.113 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 91 Resp: 743995

Ion	Ratio	Lower	Upper
91	100		
126	34.9	16.7	50.0

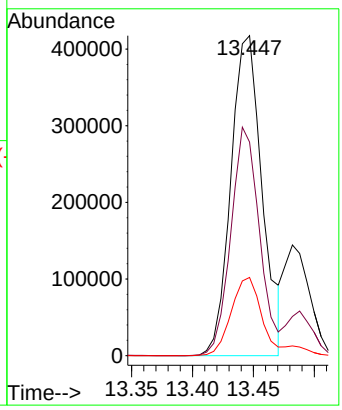




#83
tert-Butylbenzene
Concen: 37.204 ug/l
RT: 13.447 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:119 Resp: 74553

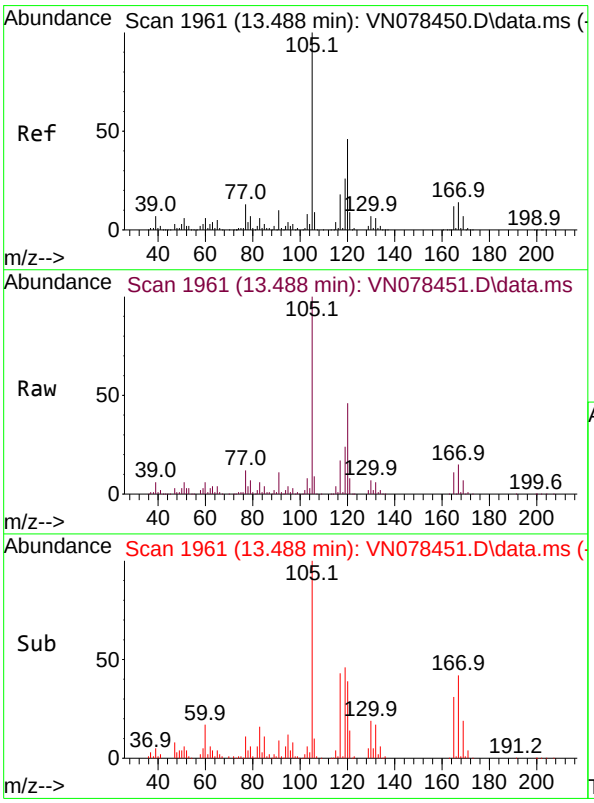
Ion	Ratio	Lower	Upper
119	100		
91	65.5	33.9	101.7
134	25.7	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

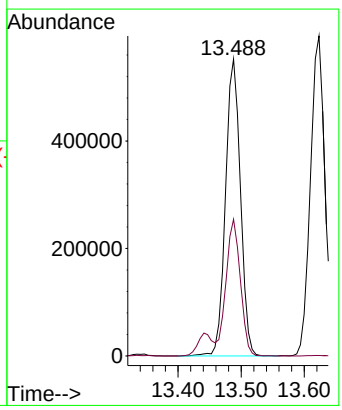
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

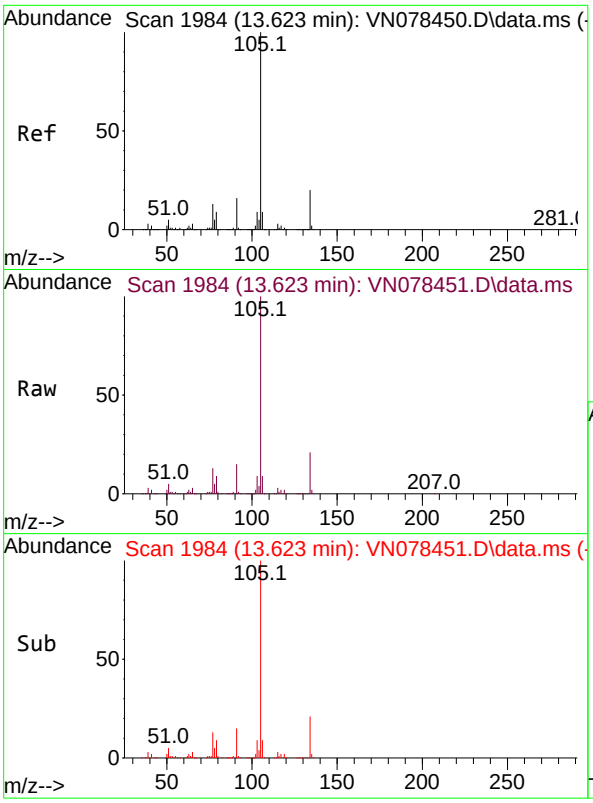


#84
1,2,4-Trimethylbenzene
Concen: 39.560 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:105 Resp: 906971

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.0	66.0

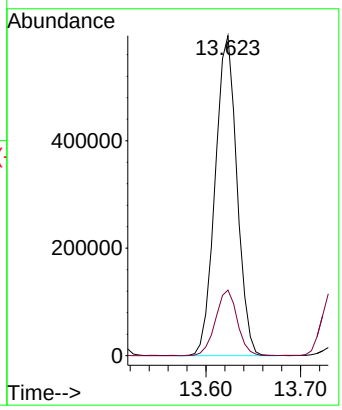




#85
sec-Butylbenzene
Concen: 37.565 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:105 Resp: 95148

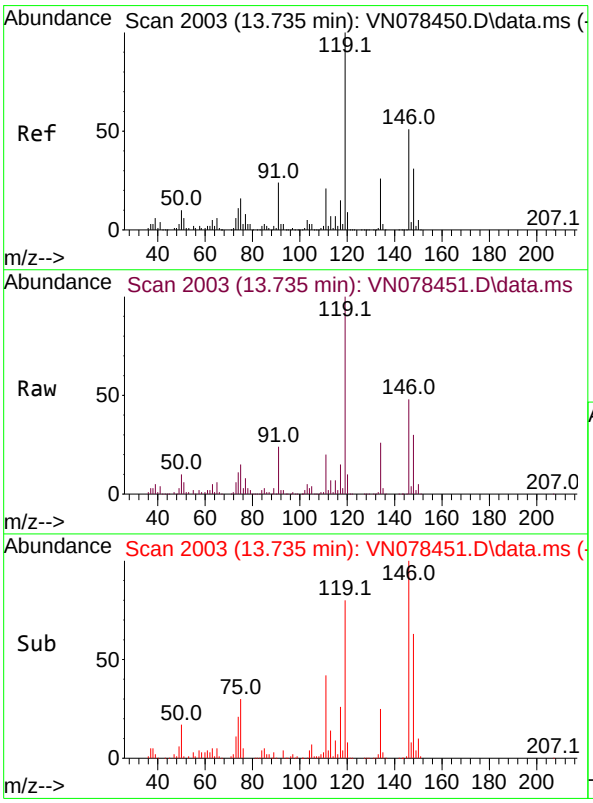
Ion	Ratio	Lower	Upper
105	100		
134	20.5	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations
APPROVED

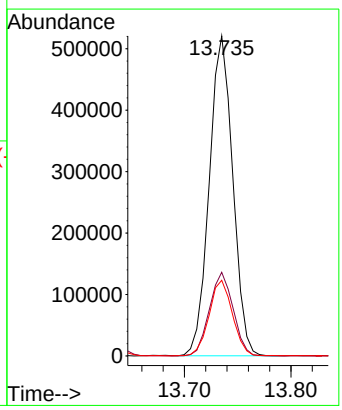
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

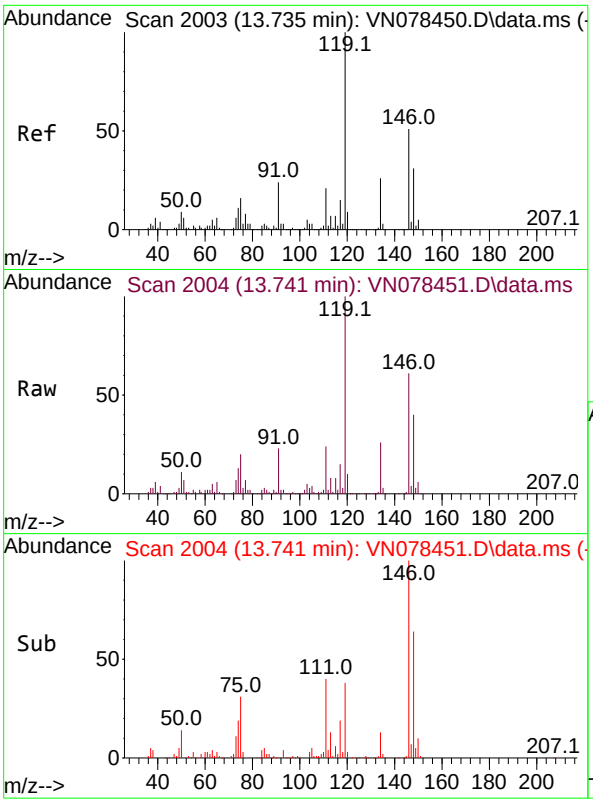


#86
p-Isopropyltoluene
Concen: 39.202 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:119 Resp: 797311

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.6	37.8
91	23.4	12.4	37.2

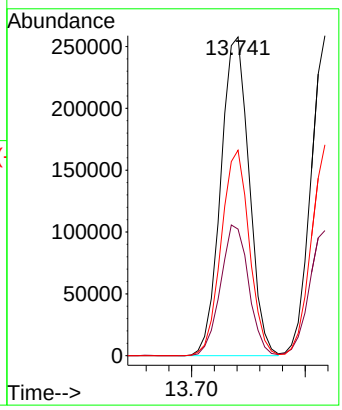




#87
1,3-Dichlorobenzene
Concen: 38.987 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:146 Resp: 44710

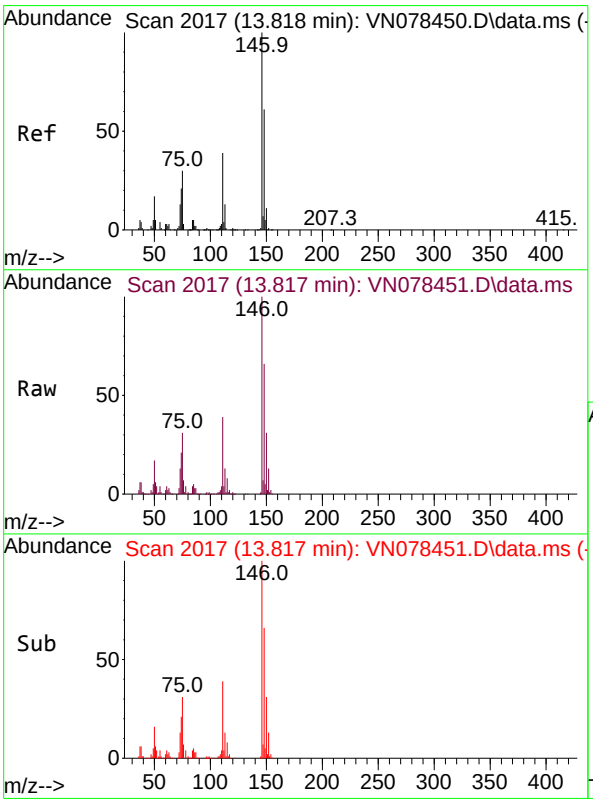
Ion	Ratio	Lower	Upper
146	100		
111	40.6	22.1	66.3
148	63.8	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

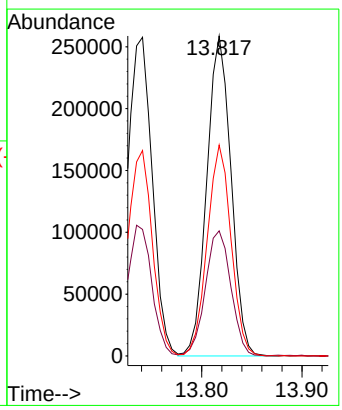
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

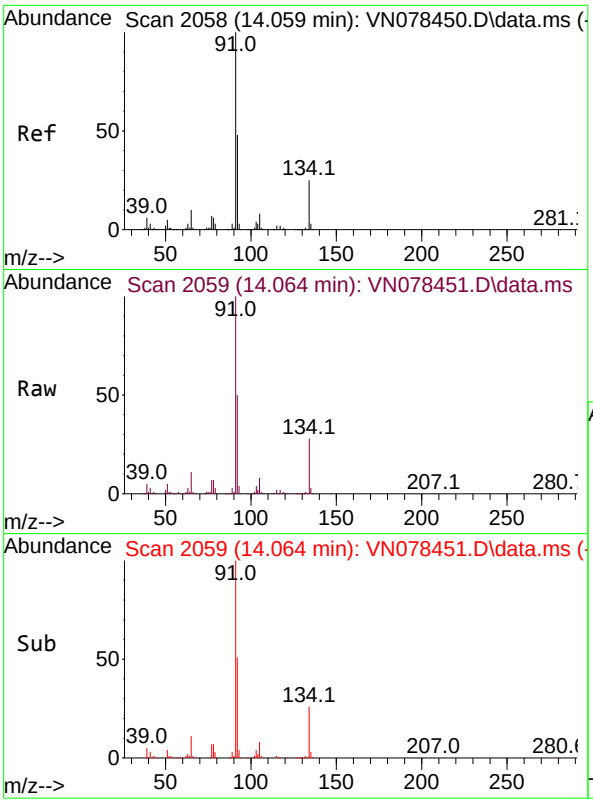


#88
1,4-Dichlorobenzene
Concen: 37.642 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:146 Resp: 434810

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.6	61.8
148	64.9	31.6	94.8

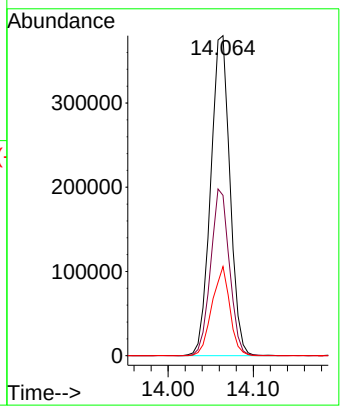




#89
n-Butylbenzene
Concen: 40.954 ug/l
RT: 14.064 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 91 Resp: 59598

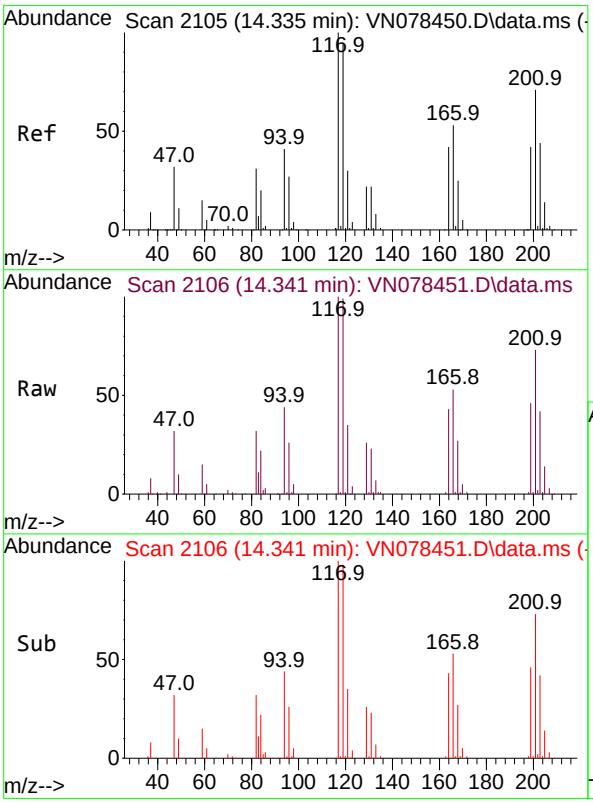
Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.4	79.0
134	25.8	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

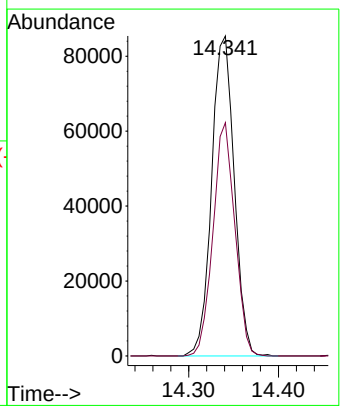
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

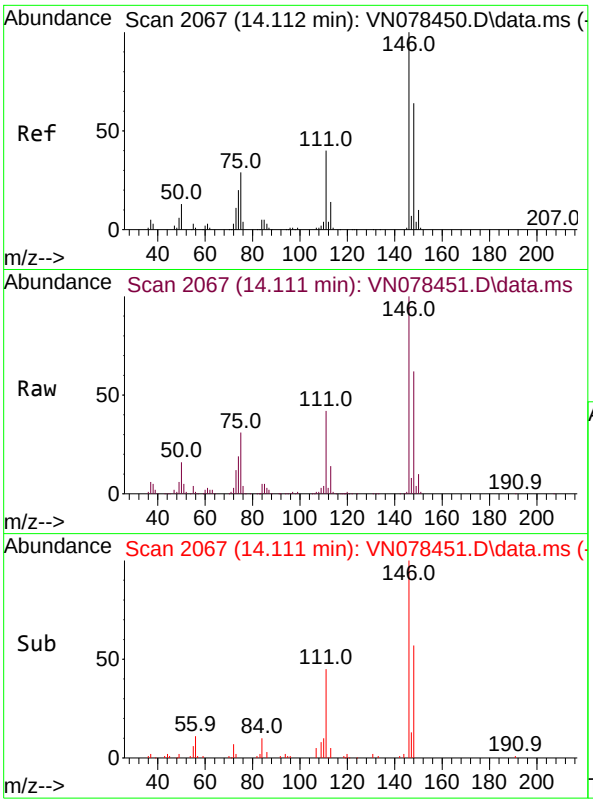


#90
Hexachloroethane
Concen: 39.729 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:117 Resp: 149143

Ion	Ratio	Lower	Upper
117	100		
201	70.6	29.3	88.0

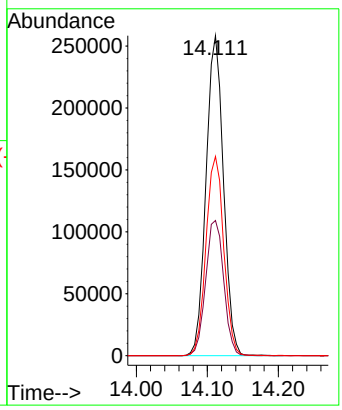




#91
1,2-Dichlorobenzene
Concen: 38.562 ug/l
RT: 14.111 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:146 Resp: 44009

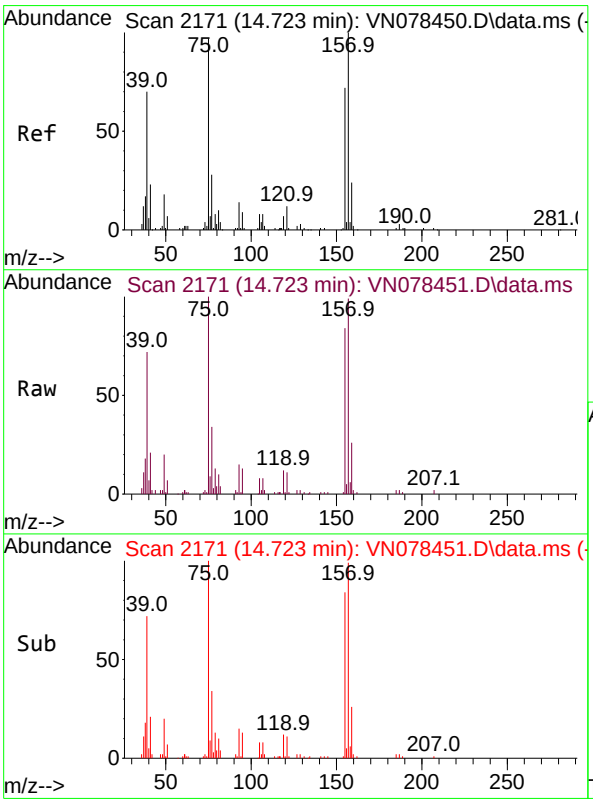
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.0	66.0
148	63.5	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

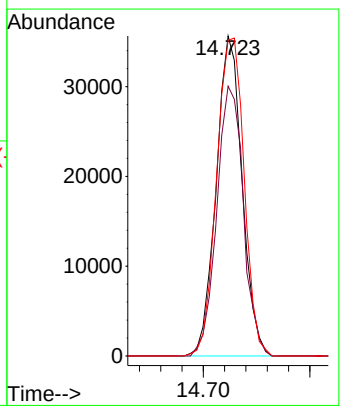
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

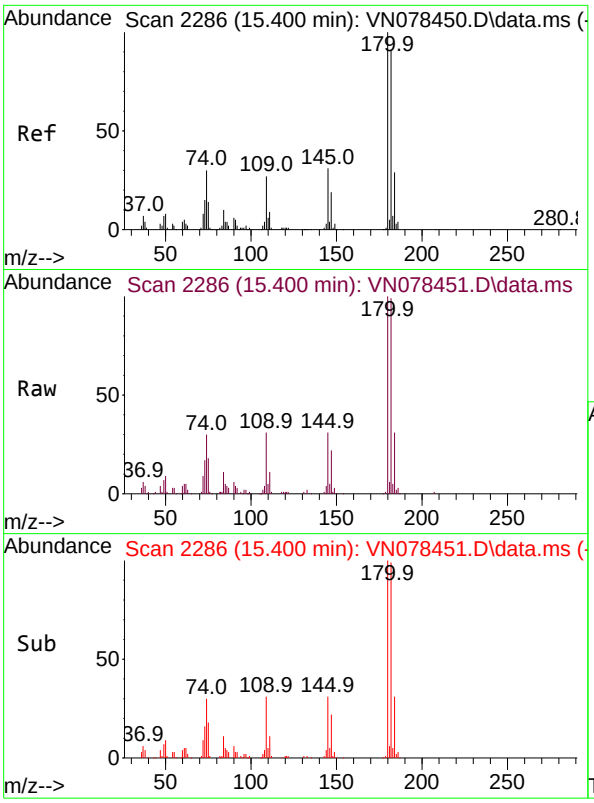


#92
1,2-Dibromo-3-Chloropropane
Concen: 41.720 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion: 75 Resp: 60119

Ion	Ratio	Lower	Upper
75	100		
155	86.4	39.1	117.2
157	105.3	50.3	150.9

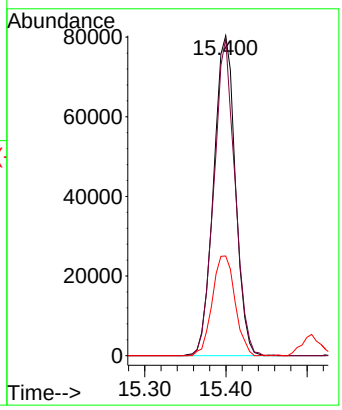




#93
1,2,4-Trichlorobenzene
Concen: 40.890 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:180 Resp: 14893

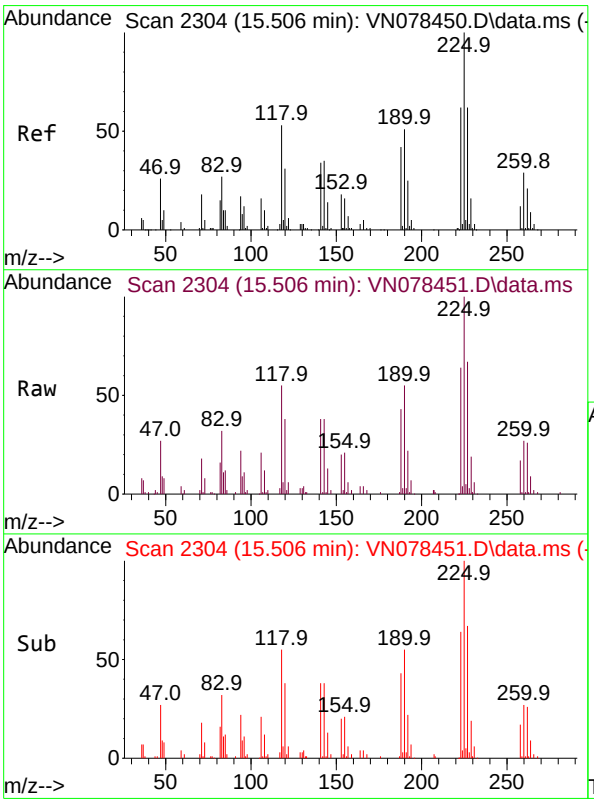
Ion	Ratio	Lower	Upper
180	100		
182	96.0	46.1	138.2
145	32.7	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

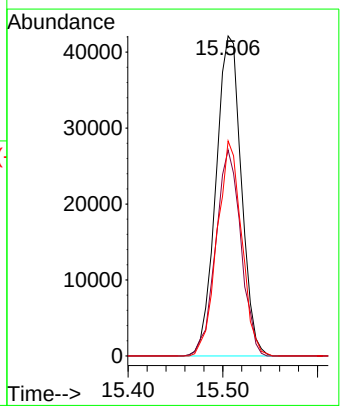
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

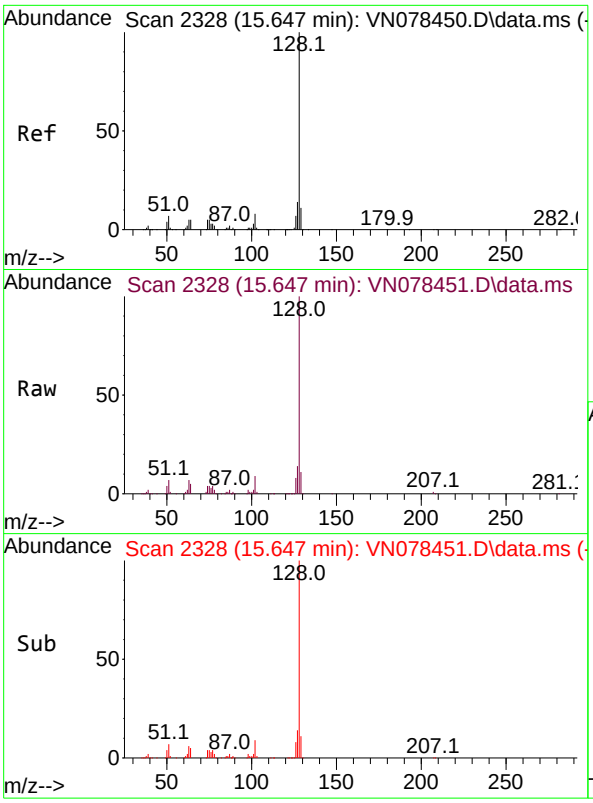


#94
Hexachlorobutadiene
Concen: 40.933 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:225 Resp: 78543

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.3	93.8
227	64.9	31.9	95.9

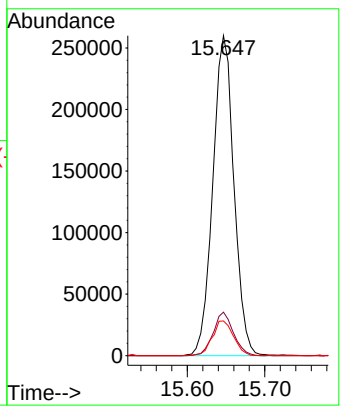




#95
Naphthalene
Concen: 39.576 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:128 Resp: 49279

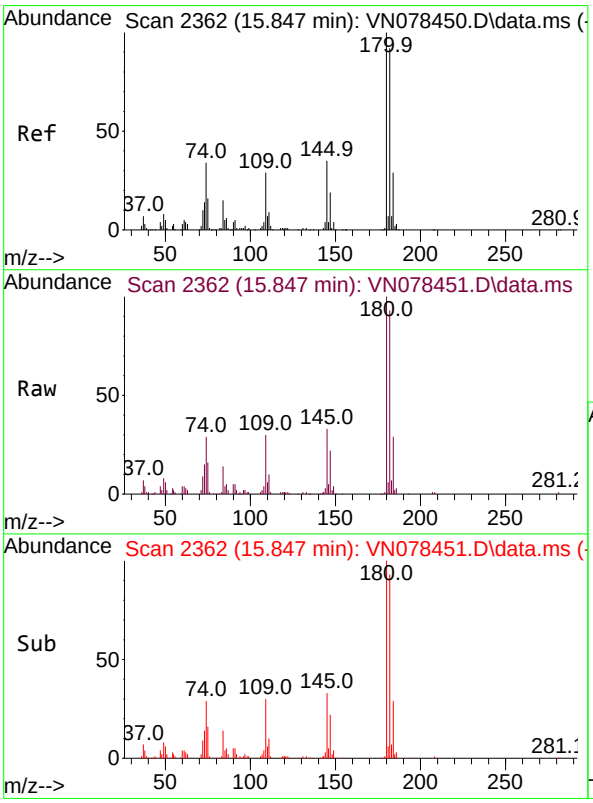
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.0	15.0
129	10.9	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC040

Manual Integrations APPROVED

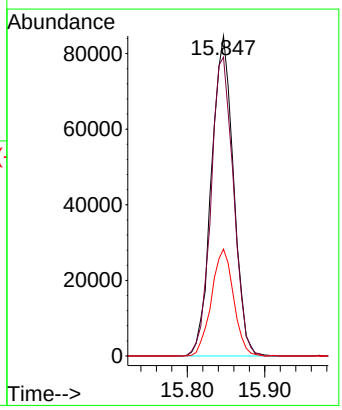
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 39.955 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078451.D
Acq: 10 Jul 2023 13:10

Tgt Ion:180 Resp: 167339

Ion	Ratio	Lower	Upper
180	100		
182	95.2	46.2	138.6
145	33.5	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078452.D
Acq On : 10 Jul 2023 13:34
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 15:54:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	506490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	868065	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	751724	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	282655	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	136740	20.138	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	40.280%#		
35) Dibromofluoromethane	8.177	113	120405	20.433	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.860%#		
50) Toluene-d8	10.571	98	444912	19.986	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.980%#		
62) 4-Bromofluorobenzene	12.853	95	134584	19.628	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	39.260%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	116678	18.789	ug/l	95
3) Chloromethane	2.371	50	125042	18.526	ug/l	100
4) Vinyl Chloride	2.518	62	170651	19.545	ug/l	100
5) Bromomethane	2.965	94	125578	19.729	ug/l	98
6) Chloroethane	3.124	64	113376	20.326	ug/l	95
7) Trichlorofluoromethane	3.501	101	204564	19.600	ug/l	100
8) Diethyl Ether	3.977	74	65418	18.812	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.383	101	108045	19.556	ug/l	96
10) Methyl Iodide	4.600	142	148429	19.550	ug/l	97
11) Tert butyl alcohol	5.536	59	103940	99.270	ug/l	99
12) 1,1-Dichloroethene	4.348	96	103072	19.286	ug/l #	78
13) Acrolein	4.189	56	102329	99.334	ug/l	99
14) Allyl chloride	5.030	41	137963	18.892	ug/l	96
15) Acrylonitrile	5.730	53	264143	99.847	ug/l	98
16) Acetone	4.436	43	202621	95.797	ug/l	93
17) Carbon Disulfide	4.718	76	292314	18.915	ug/l	98
18) Methyl Acetate	5.042	43	168020	18.766	ug/l	95
19) Methyl tert-butyl Ether	5.812	73	345173	19.602	ug/l	96
20) Methylene Chloride	5.289	84	122115	19.056	ug/l	94
21) trans-1,2-Dichloroethene	5.795	96	117630	19.532	ug/l #	84
22) Diisopropyl ether	6.677	45	326748	19.982	ug/l #	93
23) Vinyl Acetate	6.618	43	1052338	101.229	ug/l #	90
24) 1,1-Dichloroethane	6.577	63	213961	19.418	ug/l	98
25) 2-Butanone	7.494	43	330113	99.149	ug/l	92
26) 2,2-Dichloropropane	7.500	77	169178	18.773	ug/l	97
27) cis-1,2-Dichloroethene	7.494	96	137922	19.797	ug/l	95
28) Bromochloromethane	7.818	49	102041	19.662	ug/l	88
29) Tetrahydrofuran	7.847	42	212833	97.421	ug/l	87
30) Chloroform	7.971	83	226403	19.736	ug/l	87
31) Cyclohexane	8.259	56	177544	19.348	ug/l	92
32) 1,1,1-Trichloroethane	8.177	97	206056	20.035	ug/l	96
36) 1,1-Dichloropropene	8.383	75	166479	19.566	ug/l	97
37) Ethyl Acetate	7.571	43	147608	20.811	ug/l #	95
38) Carbon Tetrachloride	8.365	117	184232	19.923	ug/l	96
39) Methylcyclohexane	9.606	83	153535	19.769	ug/l	91
40) Benzene	8.612	78	508110	20.157	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078452.D
Acq On : 10 Jul 2023 13:34
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 15:54:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	70224	19.421	ug/l		95
42) 1,2-Dichloroethane	8.677	62	172703	20.143	ug/l		99
43) Isopropyl Acetate	8.694	43	244233	20.915	ug/l		93
44) Trichloroethene	9.359	130	130391	19.193	ug/l		97
45) 1,2-Dichloropropane	9.630	63	129772	20.327	ug/l		95
46) Dibromomethane	9.712	93	90702	20.185	ug/l		92
47) Bromodichloromethane	9.894	83	182702	20.283	ug/l		98
48) Methyl methacrylate	9.688	41	108172	19.995	ug/l		90
49) 1,4-Dioxane	9.700	88	48946	414.856	ug/l		95
51) 4-Methyl-2-Pentanone	10.453	43	729296	104.997	ug/l		92
52) Toluene	10.635	92	304938	19.519	ug/l		92
53) t-1,3-Dichloropropene	10.841	75	184312	19.973	ug/l		100
54) cis-1,3-Dichloropropene	10.318	75	200793	20.413	ug/l		93
55) 1,1,2-Trichloroethane	11.024	97	124764	20.269	ug/l		96
56) Ethyl methacrylate	10.877	69	174763	20.311	ug/l		91
57) 1,3-Dichloropropane	11.171	76	212899	20.342	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	297509	97.023	ug/l		93
59) 2-Hexanone	11.200	43	504899	102.278	ug/l		92
60) Dibromochloromethane	11.365	129	136492	20.086	ug/l		99
61) 1,2-Dibromoethane	11.471	107	127160	20.054	ug/l		100
64) Tetrachloroethene	11.112	164	118973	21.051	ug/l		95
65) Chlorobenzene	11.894	112	334361	19.899	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.965	131	129045	19.964	ug/l		96
67) Ethyl Benzene	11.971	91	580064	20.423	ug/l		99
68) m/p-Xylenes	12.076	106	433823	41.312	ug/l		98
69) o-Xylene	12.406	106	214478	20.221	ug/l		98
70) Styrene	12.418	104	335885	20.241	ug/l		98
71) Bromoform	12.582	173	88446	20.203	ug/l	#	98
73) Isopropylbenzene	12.700	105	527441	19.859	ug/l		99
74) N-amyl acetate	12.500	43	182096	19.895	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.941	83	169381	21.039	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	139097m	20.382	ug/l		
77) Bromobenzene	12.982	156	123131	20.404	ug/l		97
78) n-propylbenzene	13.041	91	567216	19.970	ug/l		100
79) 2-Chlorotoluene	13.129	91	371193	19.951	ug/l		97
80) 1,3,5-Trimethylbenzene	13.176	105	426565	20.327	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	49271	18.951	ug/l		97
82) 4-Chlorotoluene	13.229	91	340292	19.607	ug/l		98
83) tert-Butylbenzene	13.447	119	357194	20.048	ug/l		97
84) 1,2,4-Trimethylbenzene	13.488	105	412523	20.238	ug/l		97
85) sec-Butylbenzene	13.623	105	443554	19.696	ug/l		98
86) p-Isopropyltoluene	13.735	119	362229	20.032	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	199778	19.594	ug/l		97
88) 1,4-Dichlorobenzene	13.818	146	200731	19.545	ug/l		99
89) n-Butylbenzene	14.059	91	259625	20.066	ug/l		96
90) Hexachloroethane	14.341	117	68556	20.140	ug/l		86
91) 1,2-Dichlorobenzene	14.112	146	204434	20.147	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	27767	20.714	ug/l		92
93) 1,2,4-Trichlorobenzene	15.400	180	62758	19.379	ug/l		98
94) Hexachlorobutadiene	15.500	225	39894	21.450	ug/l		98
95) Naphthalene	15.647	128	203476	18.379	ug/l		99
96) 1,2,3-Trichlorobenzene	15.847	180	73056	19.619	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078452.D
Acq On : 10 Jul 2023 13:34
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 15:54:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

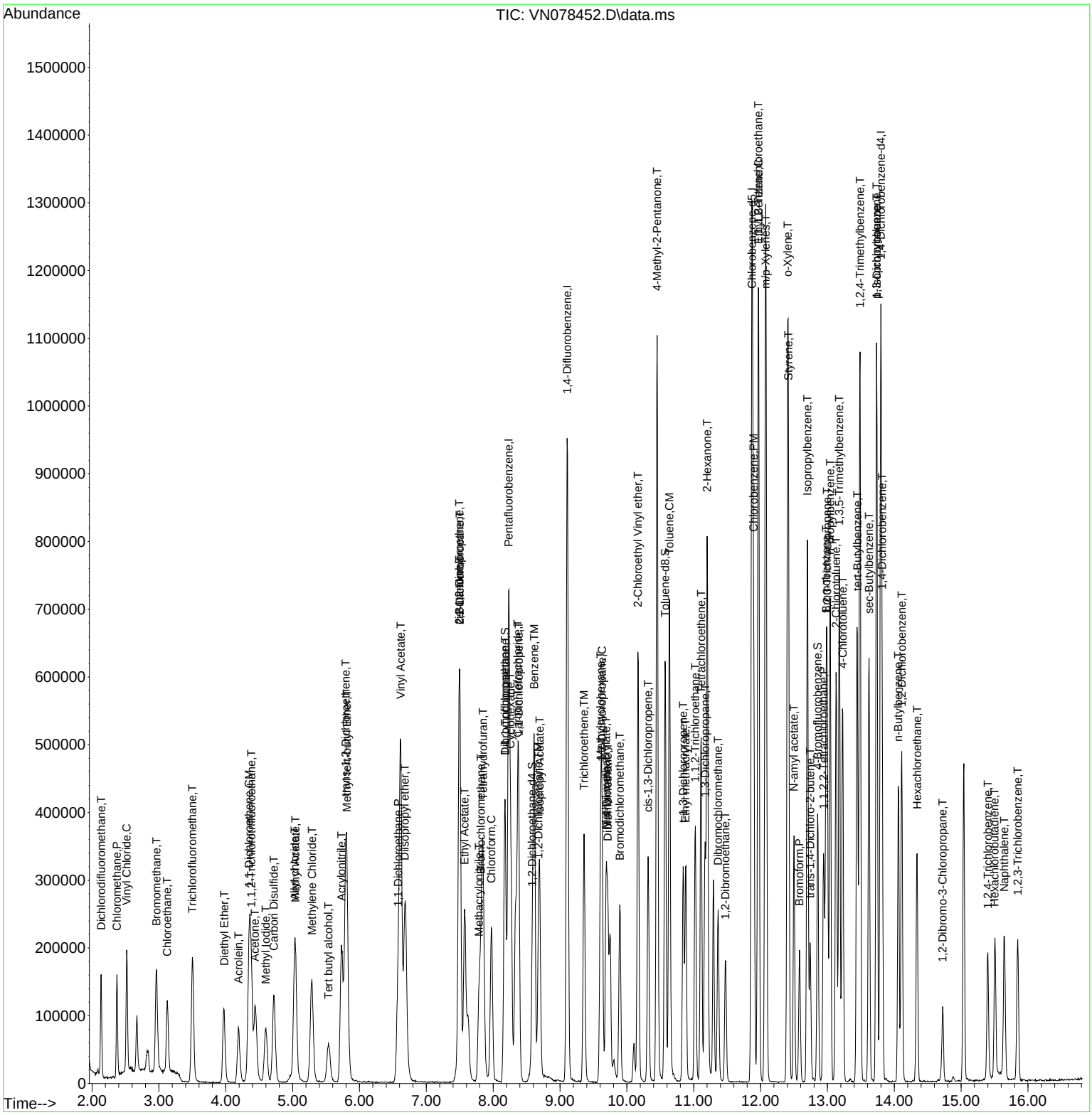
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Acq On : 10 Jul 2023 13:34
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

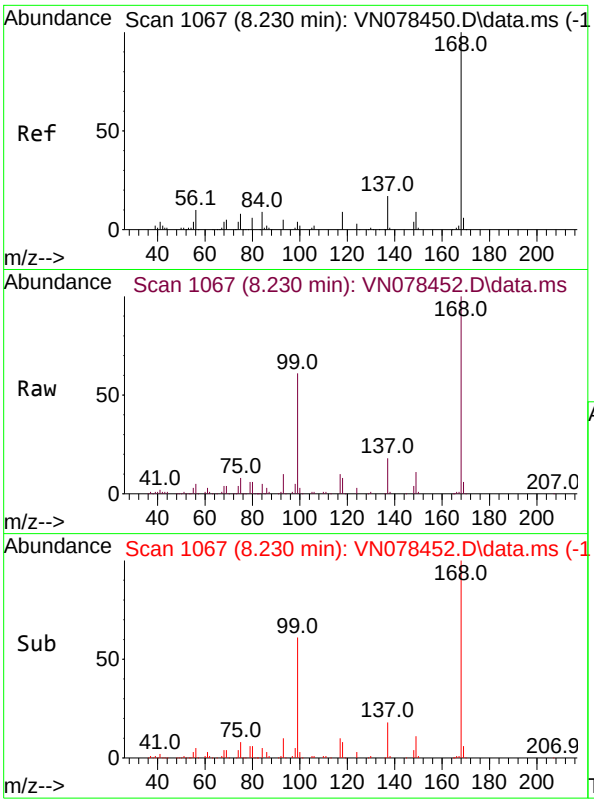
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:52:56 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

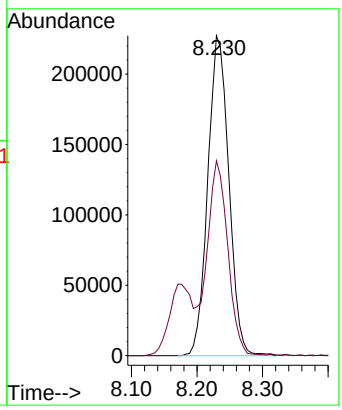




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:168 Resp: 50649

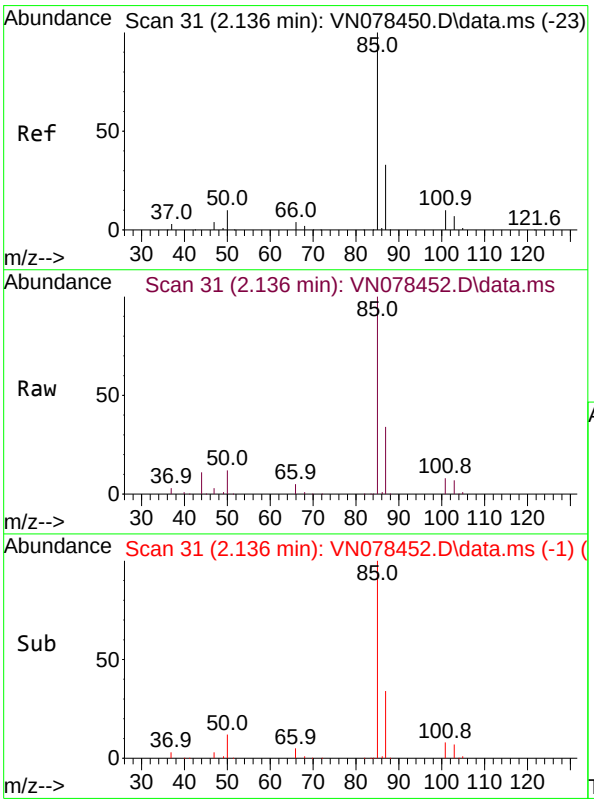
Ion	Ratio	Lower	Upper
168	100		
99	60.7	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

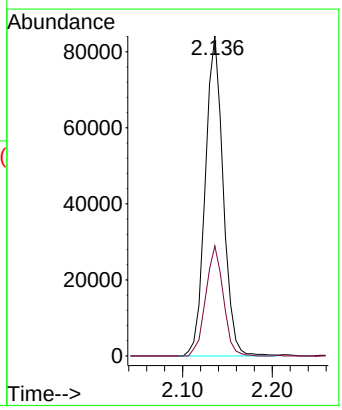
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

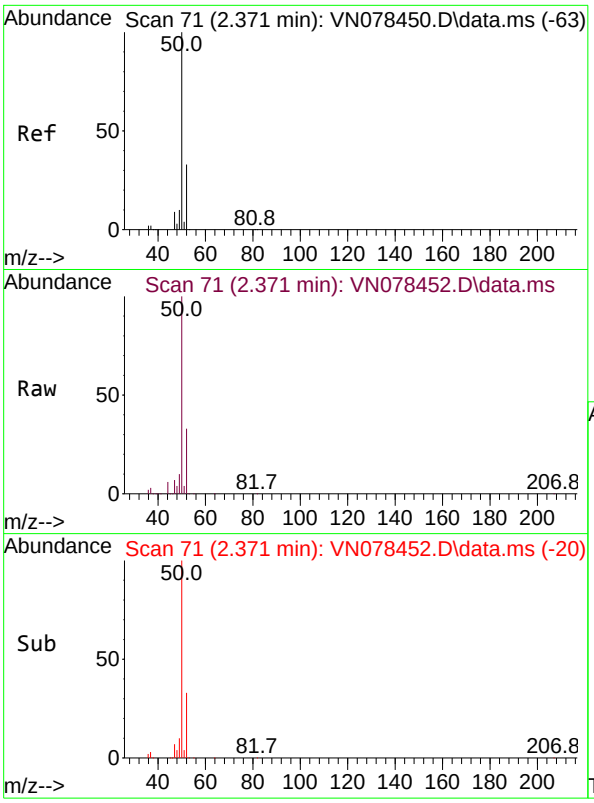


#2
Dichlorodifluoromethane
Concen: 18.789 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 85 Resp: 116678

Ion	Ratio	Lower	Upper
85	100		
87	34.4	15.8	47.4

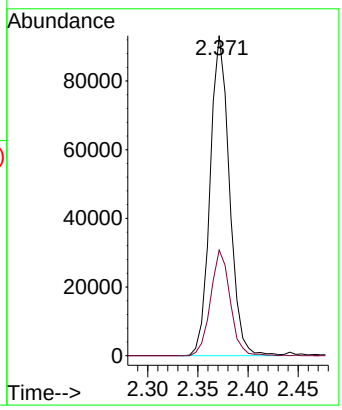




#3
Chloromethane
Concen: 18.526 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 50 Resp: 12504

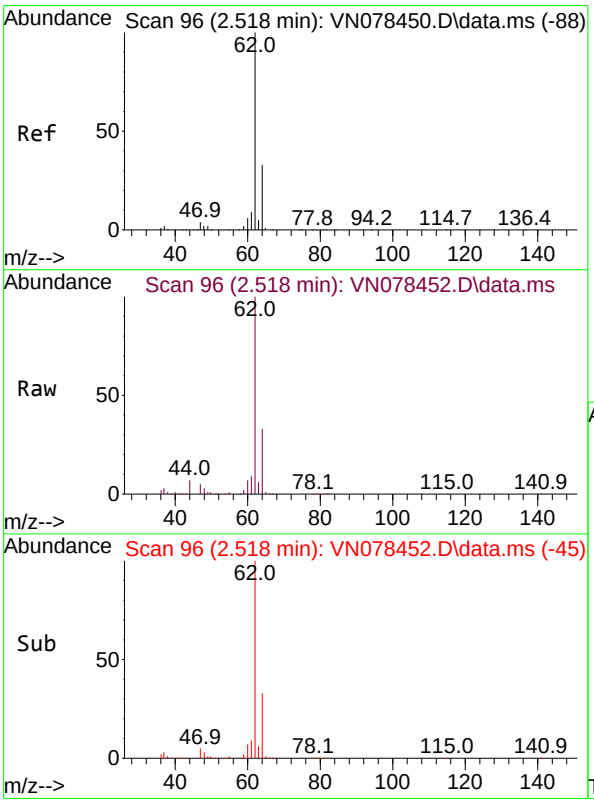
Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

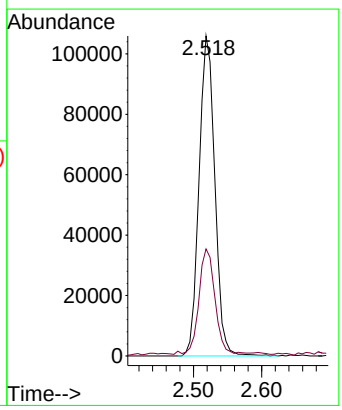
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

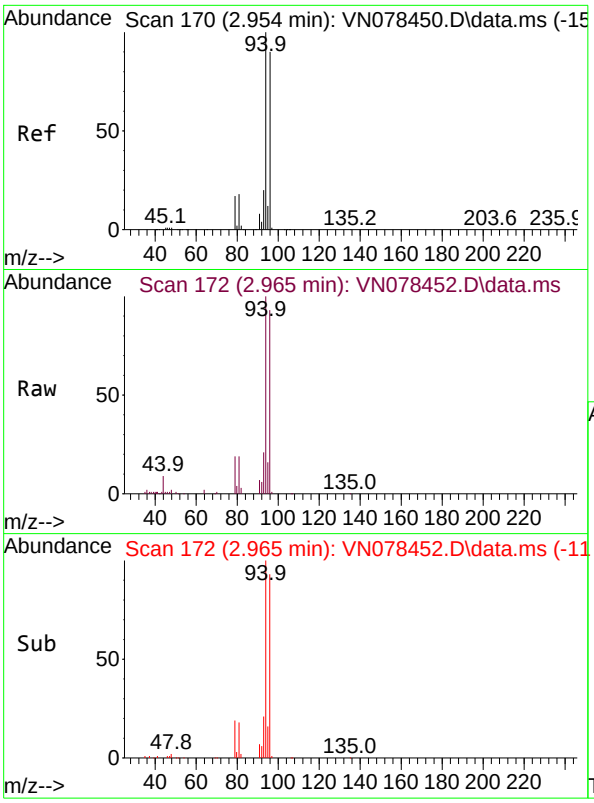


#4
Vinyl Chloride
Concen: 19.545 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 62 Resp: 170651

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.2	39.2

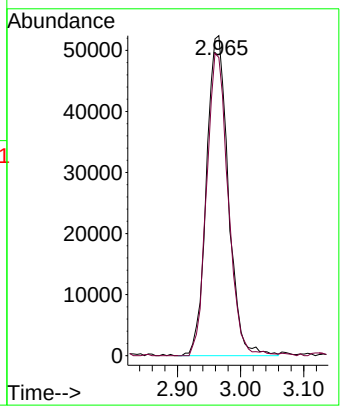




#5
Bromomethane
Concen: 19.729 ug/l
RT: 2.965 min Scan# 1
Delta R.T. 0.011 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 94 Resp: 12557

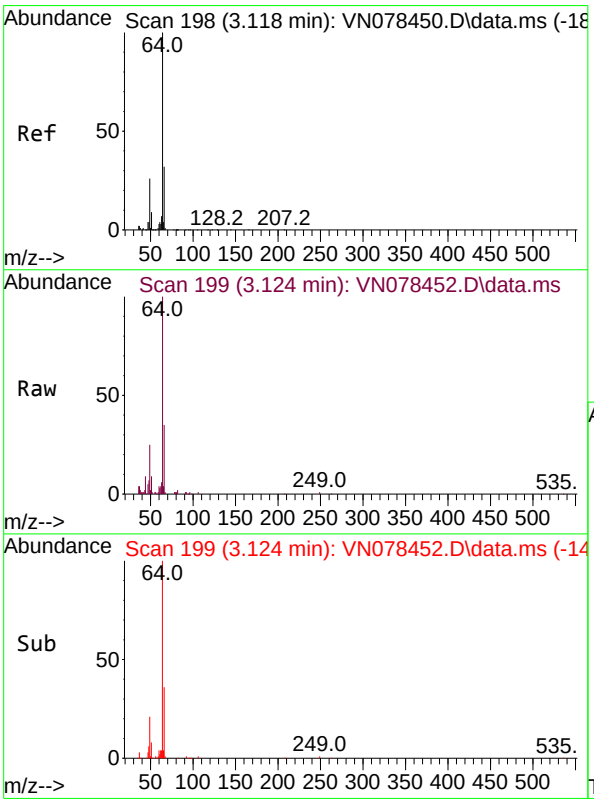
Ion	Ratio	Lower	Upper
94	100		
96	93.2	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

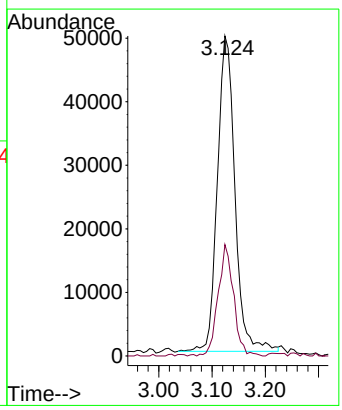
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

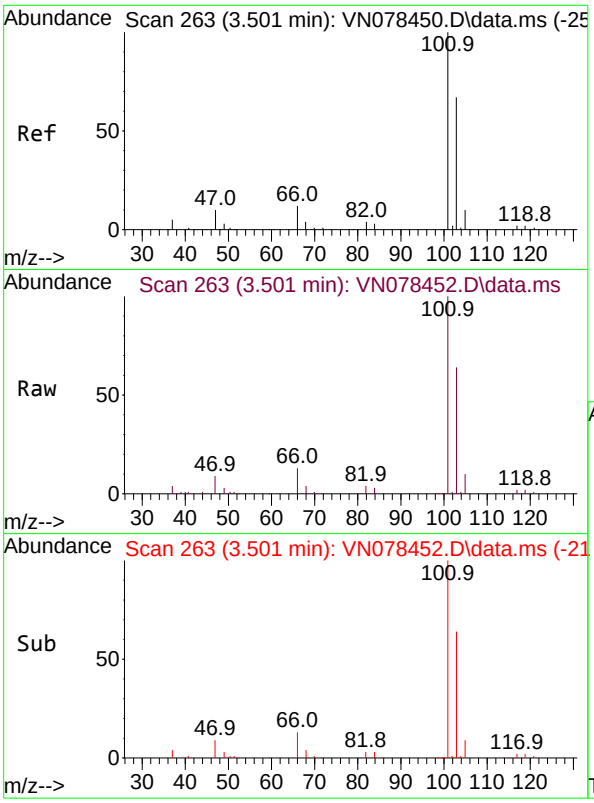


#6
Chloroethane
Concen: 20.326 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 64 Resp: 113376

Ion	Ratio	Lower	Upper
64	100		
66	34.8	25.4	38.2





#7
Trichlorofluoromethane
Concen: 19.600 ug/l
RT: 3.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

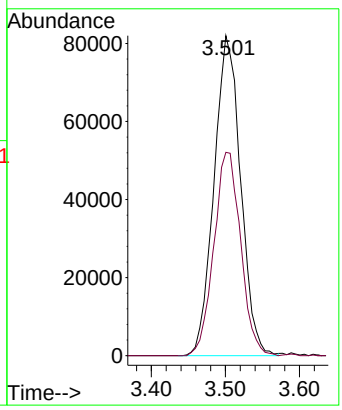
Tgt Ion:101 Resp: 20456

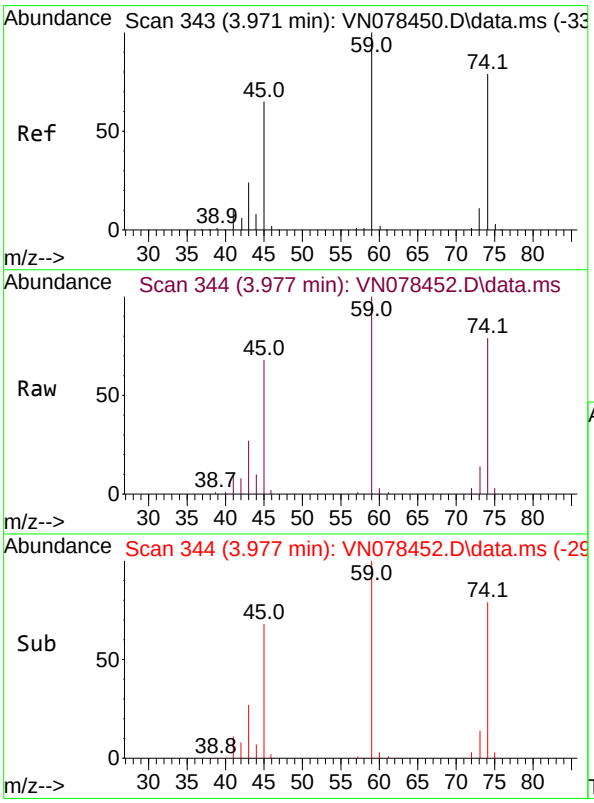
Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

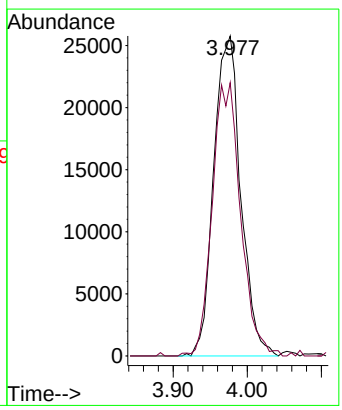


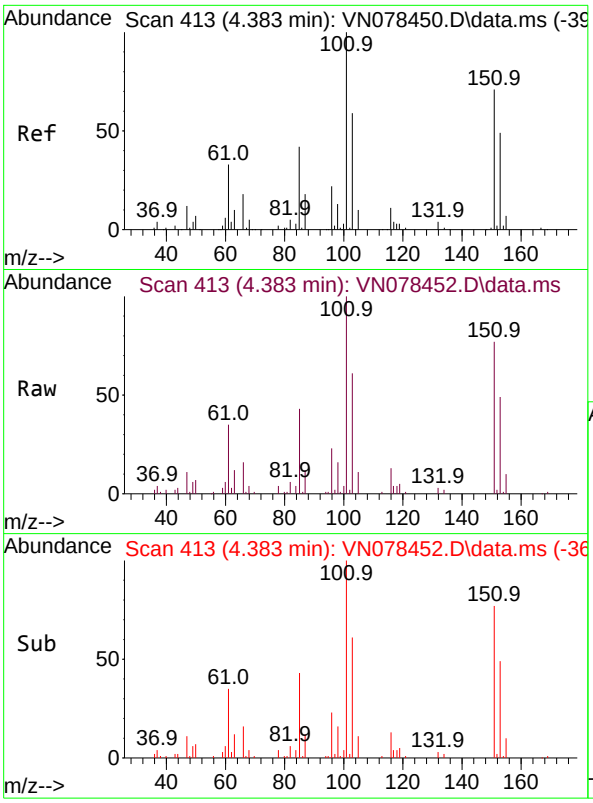


#8
Diethyl Ether
Concen: 18.812 ug/l
RT: 3.977 min Scan# 344
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 74 Resp: 65418

Ion	Ratio	Lower	Upper
74	100		
45	89.3	34.4	103.3

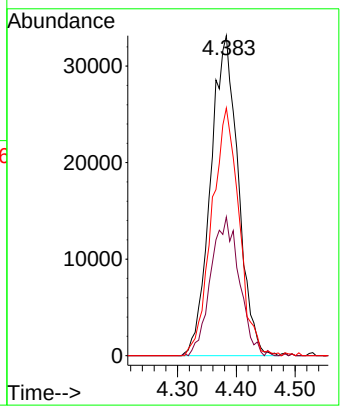




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.556 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:101 Resp: 10804

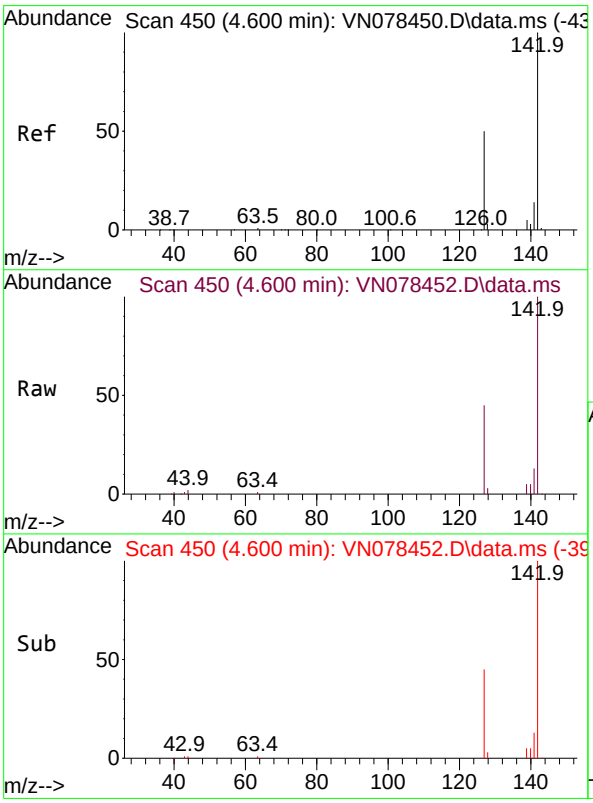
Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.6	55.0
151	76.4	57.6	86.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

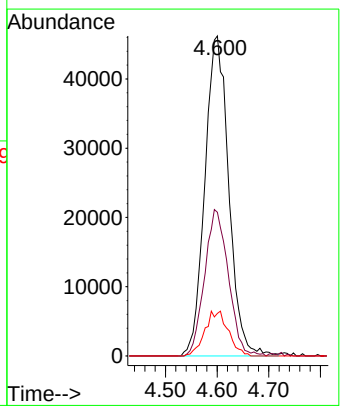
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

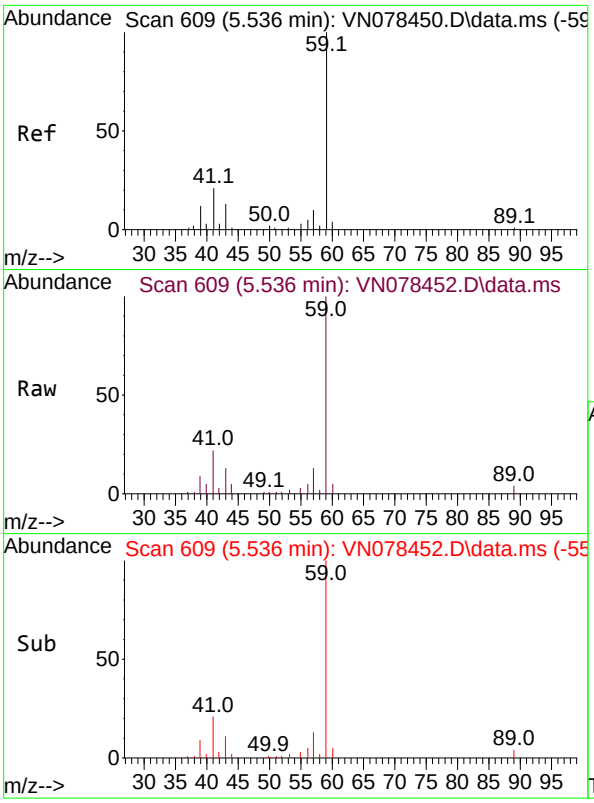


#10
Methyl Iodide
Concen: 19.550 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:142 Resp: 148429

Ion	Ratio	Lower	Upper
142	100		
127	44.9	37.6	56.4
141	13.3	11.4	17.0

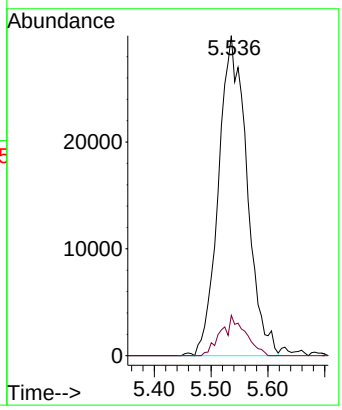




#11
Tert butyl alcohol
Concen: 99.270 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 59 Resp: 10394

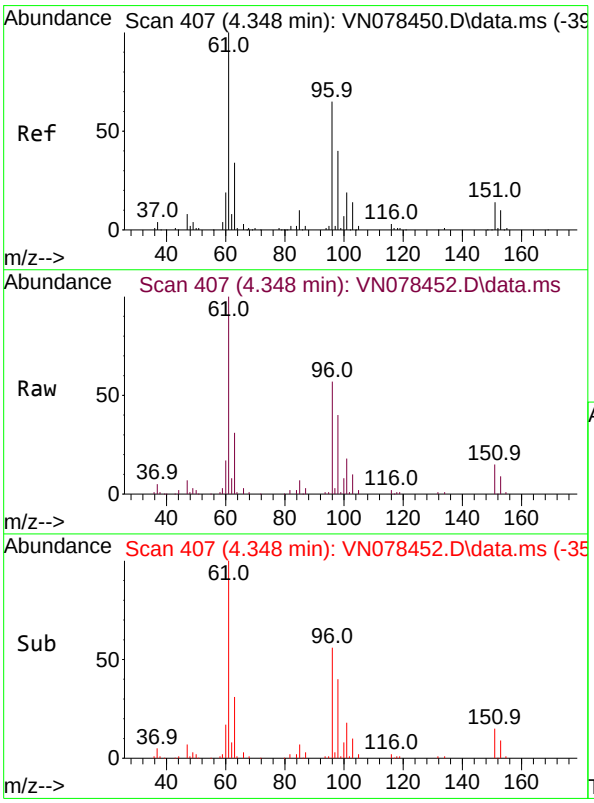
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

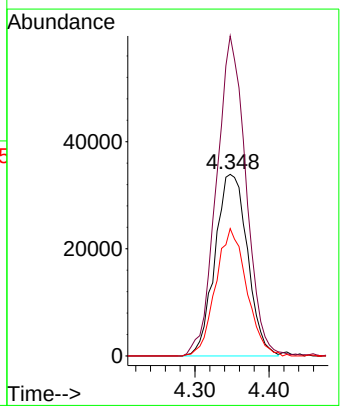
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

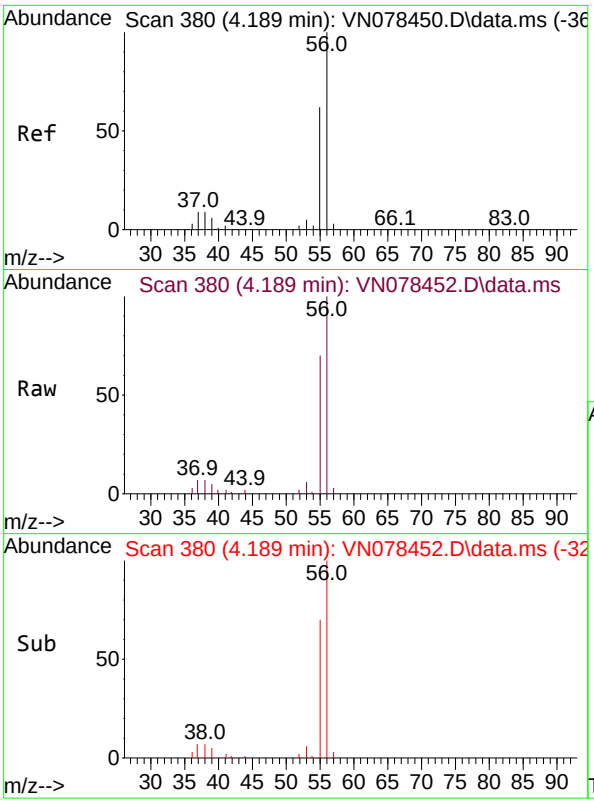


#12
1,1-Dichloroethene
Concen: 19.286 ug/l
RT: 4.348 min Scan# 407
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 96 Resp: 103072

Ion	Ratio	Lower	Upper
96	100		
61	176.2	112.7	169.1#
98	70.1	51.2	76.8

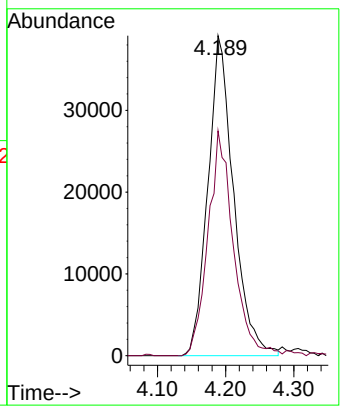




#13
Acrolein
Concen: 99.334 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 56 Resp: 10232

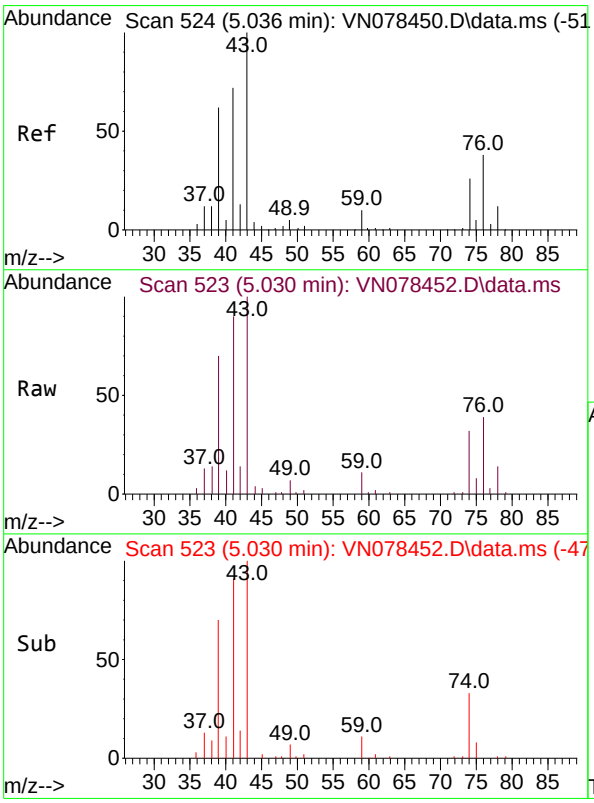
Ion	Ratio	Lower	Upper
56	100		
55	69.2	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

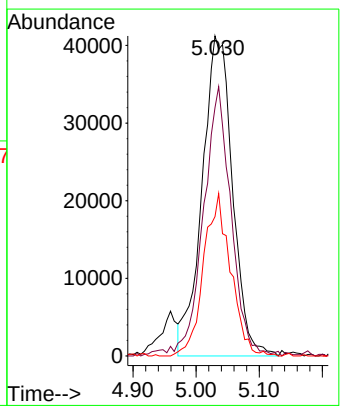
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

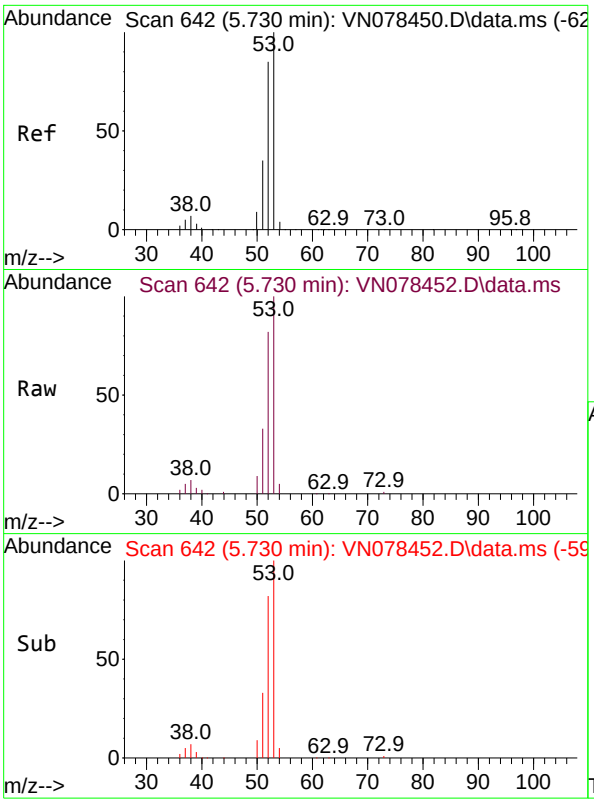


#14
Allyl chloride
Concen: 18.892 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 41 Resp: 137963

Ion	Ratio	Lower	Upper
41	100		
39	76.5	58.8	88.2
76	45.2	39.1	58.7

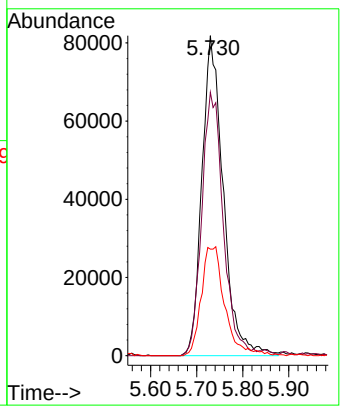




#15
Acrylonitrile
Concen: 99.847 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 53 Resp: 26414

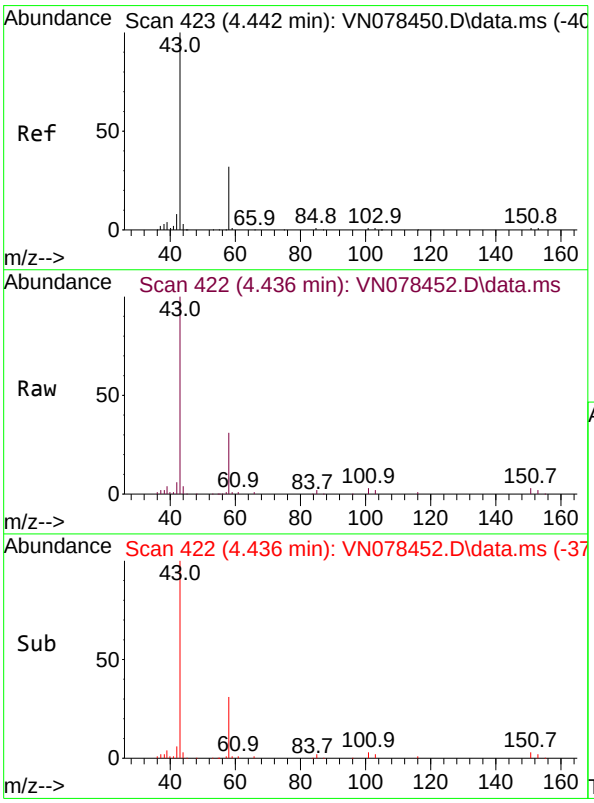
Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.3	97.9
51	37.3	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

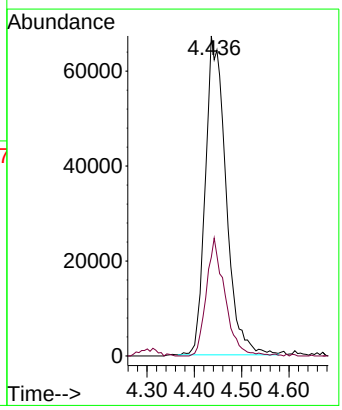
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

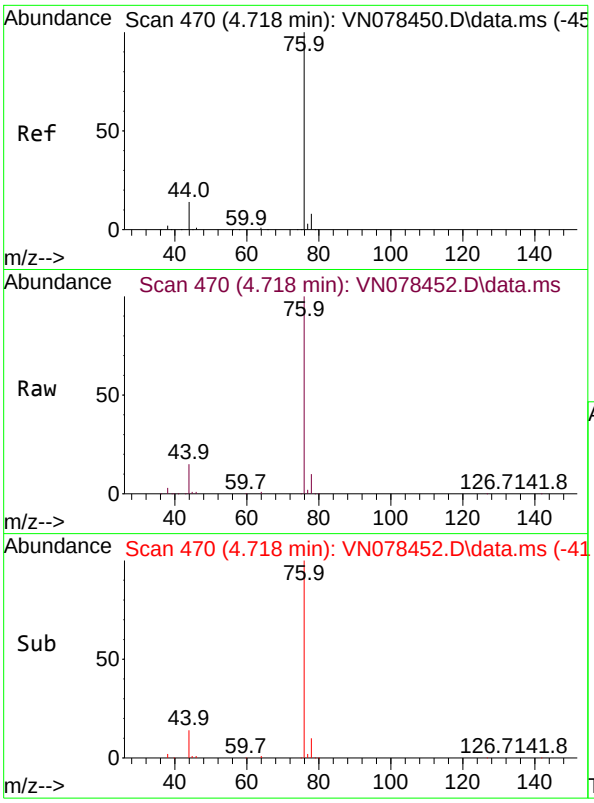


#16
Acetone
Concen: 95.797 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 43 Resp: 202621

Ion	Ratio	Lower	Upper
43	100		
58	31.0	28.0	42.0

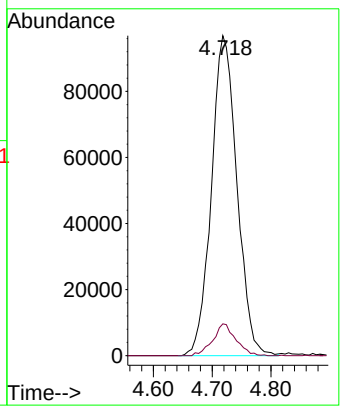




#17
Carbon Disulfide
Concen: 18.915 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 76 Resp: 29231

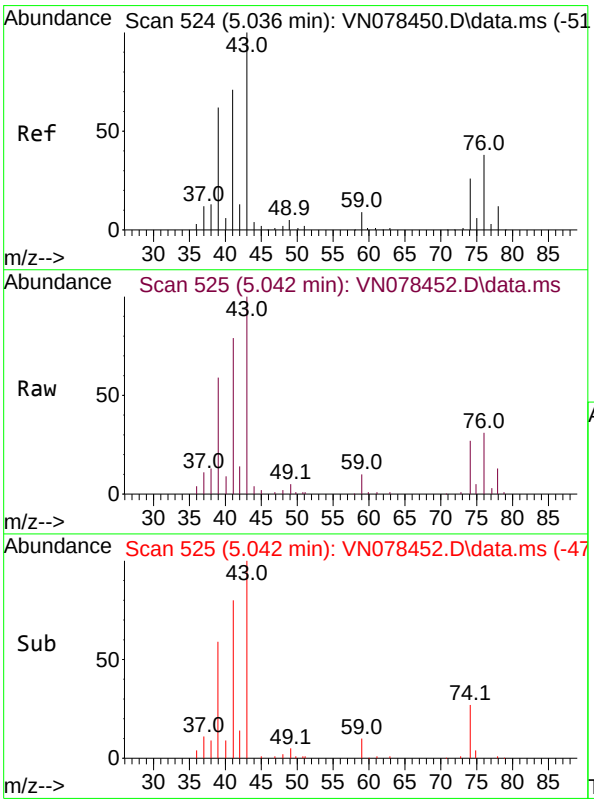
Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.4	11.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

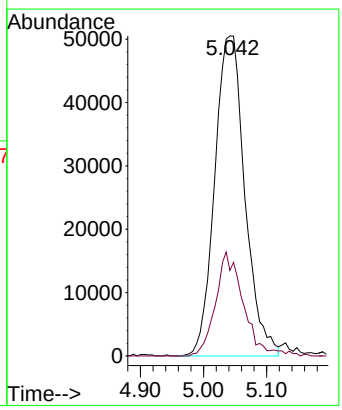
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

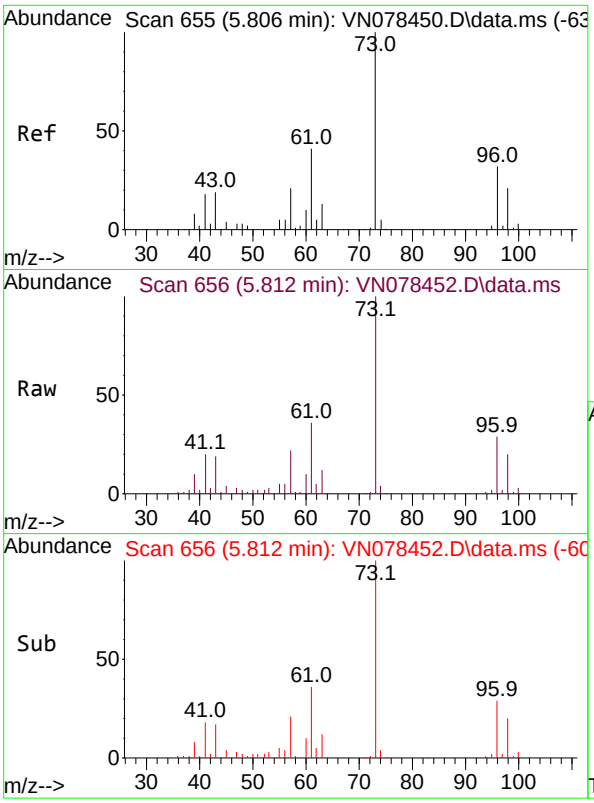


#18
Methyl Acetate
Concen: 18.766 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 43 Resp: 168020

Ion	Ratio	Lower	Upper
43	100		
74	29.9	26.2	39.4

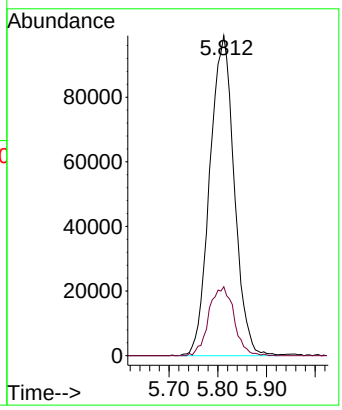




#19
Methyl tert-butyl Ether
Concen: 19.602 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 73 Resp: 34517

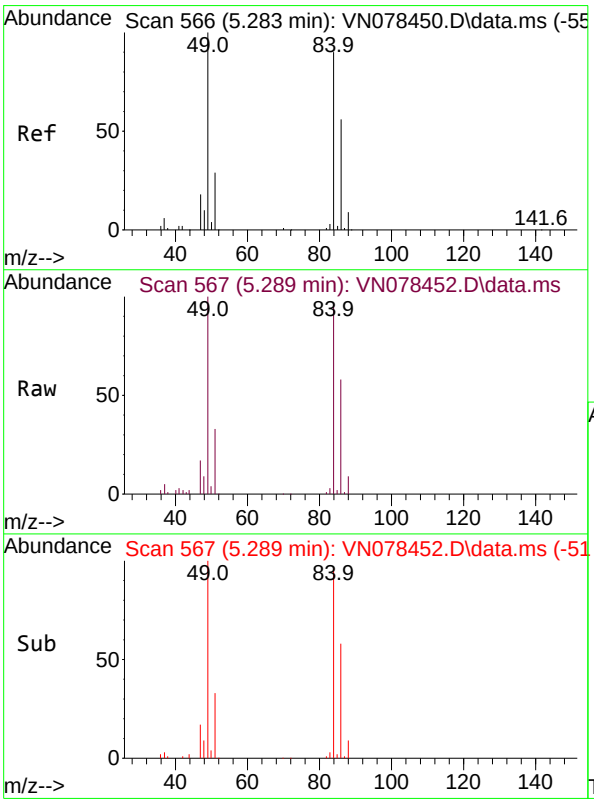
Ion	Ratio	Lower	Upper
73	100		
57	21.5	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

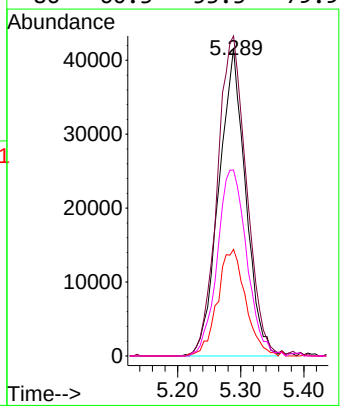
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

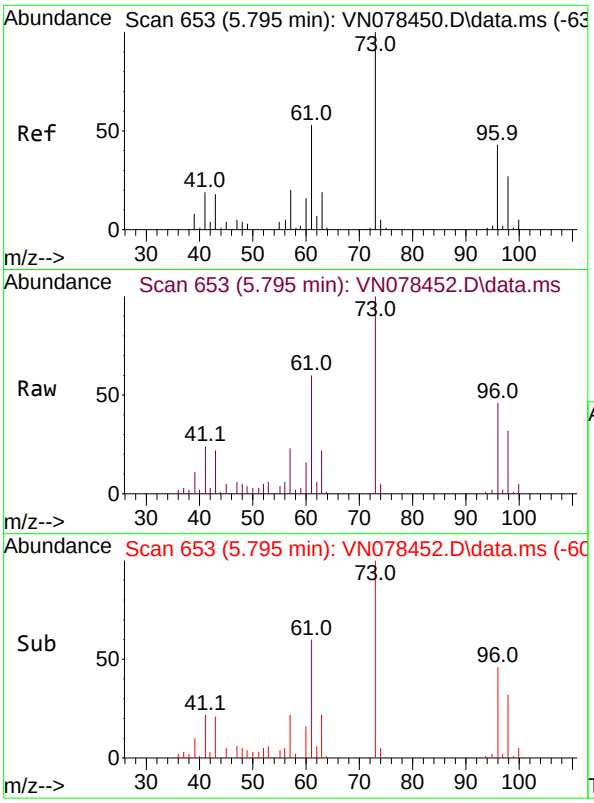


#20
Methylene Chloride
Concen: 19.056 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 84 Resp: 122115

Ion	Ratio	Lower	Upper
84	100		
49	103.9	79.7	119.5
51	34.6	25.2	37.8
86	60.3	53.3	79.9

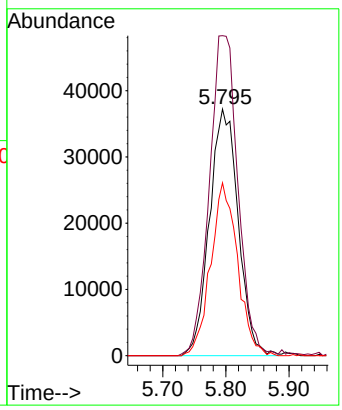




#21
trans-1,2-Dichloroethene
Concen: 19.532 ug/l
RT: 5.795 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 96 Resp: 11763

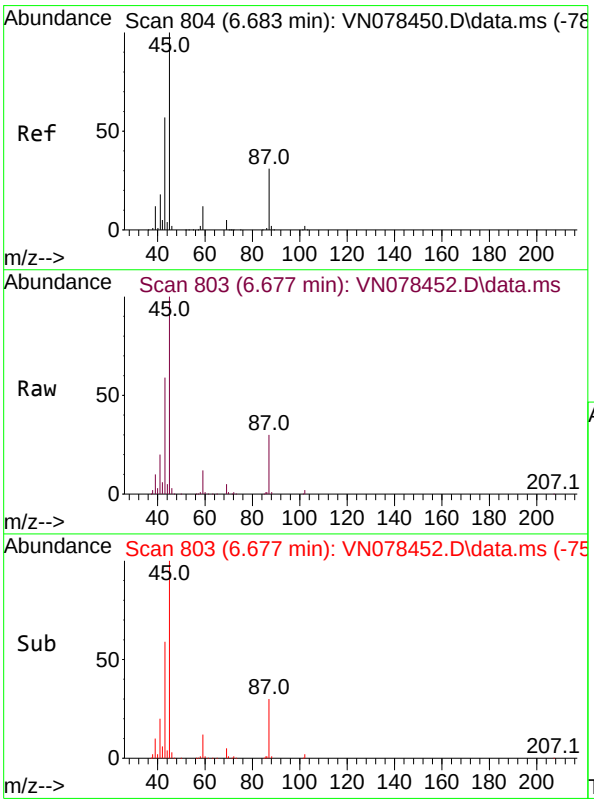
Ion	Ratio	Lower	Upper
96	100		
61	129.8	90.1	135.1
98	70.1	46.4	69.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

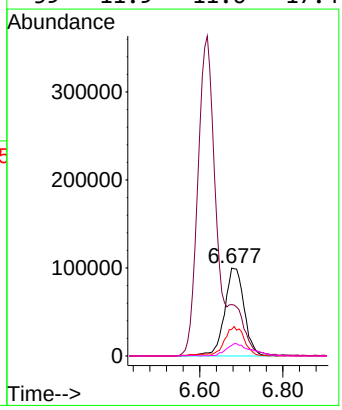
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

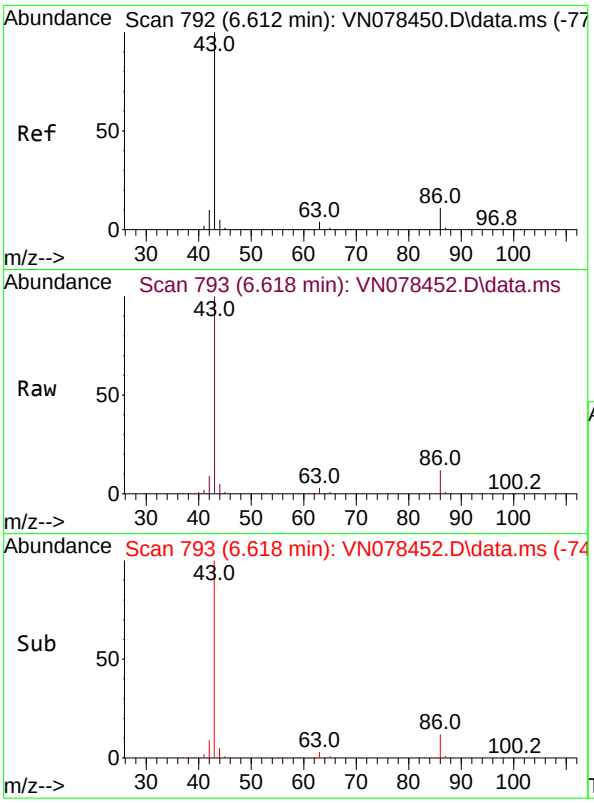


#22
Diisopropyl ether
Concen: 19.982 ug/l
RT: 6.677 min Scan# 803
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 45 Resp: 326748

Ion	Ratio	Lower	Upper
45	100		
43	58.3	45.5	68.3
87	30.3	31.8	47.8#
59	11.9	11.6	17.4

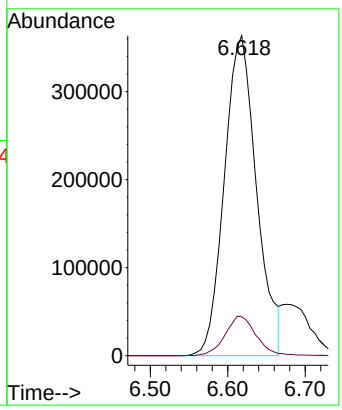




#23
Vinyl Acetate
Concen: 101.229 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 43 Resp: 105233

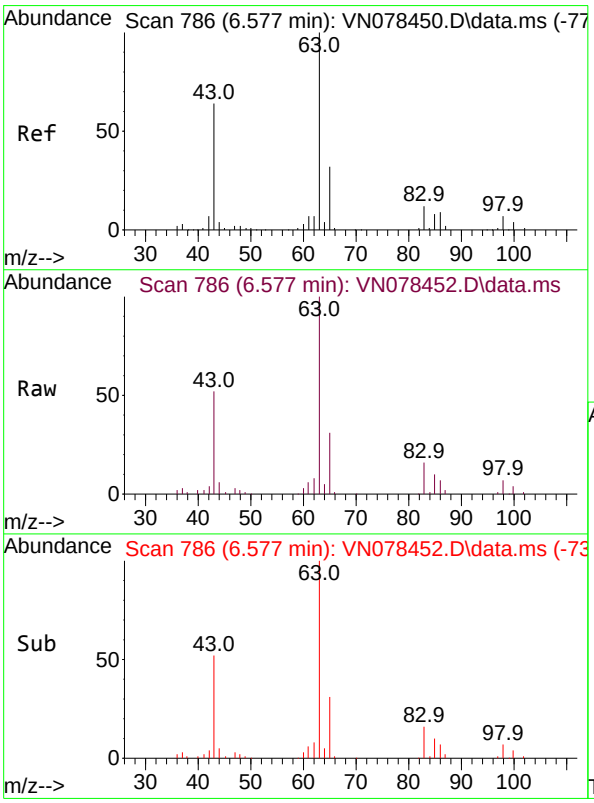
Ion	Ratio	Lower	Upper
43	100		
86	12.2	13.0	19.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

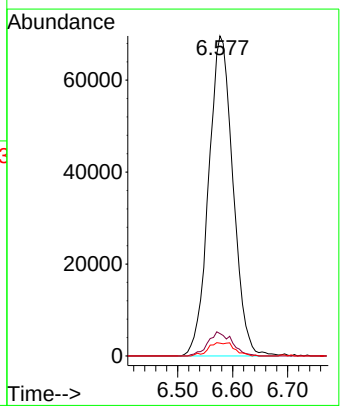
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

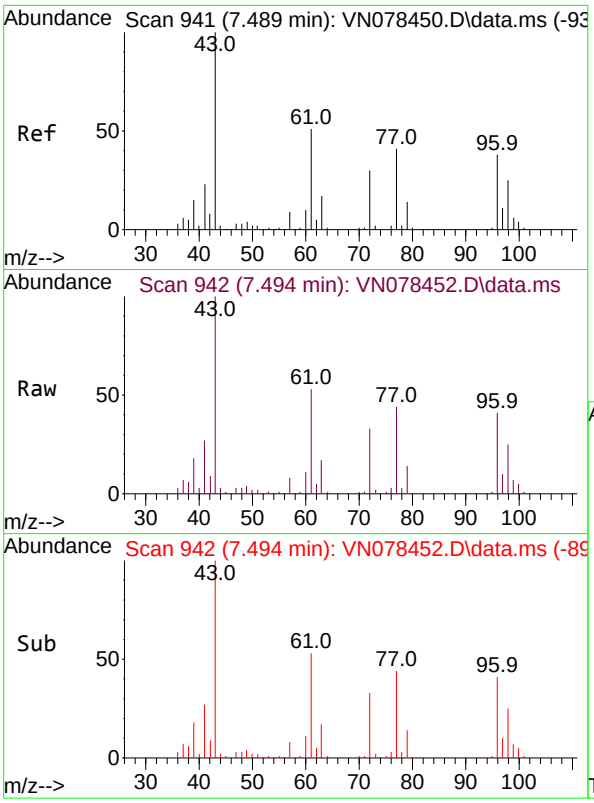


#24
1,1-Dichloroethane
Concen: 19.418 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 63 Resp: 213961

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.9	11.7
100	4.0	2.5	7.4





#25
2-Butanone
Concen: 99.149 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.005 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

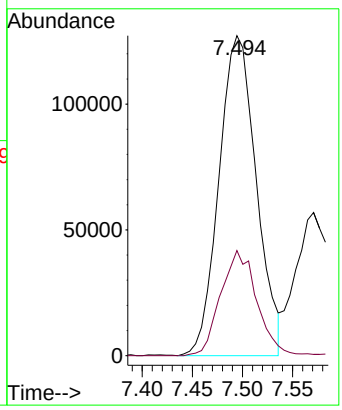
Tgt Ion: 43 Resp: 33011

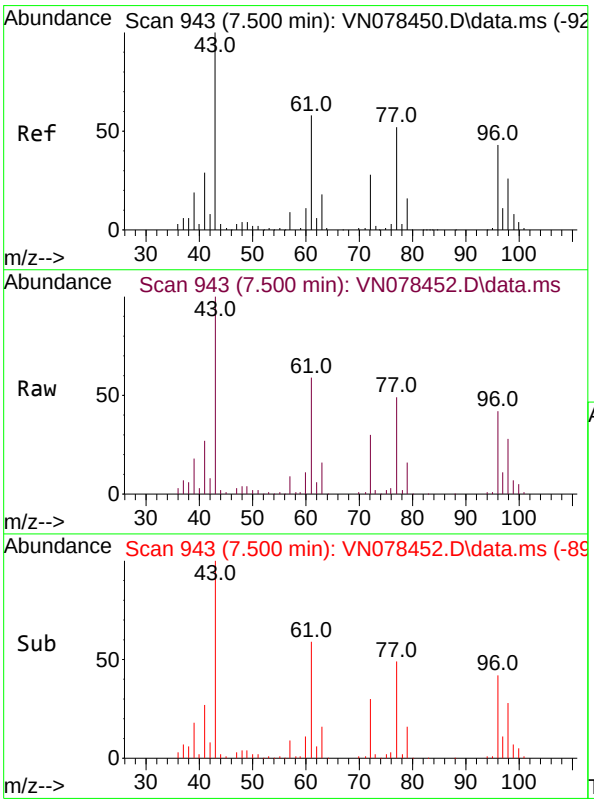
Ion	Ratio	Lower	Upper
43	100		
72	33.0	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

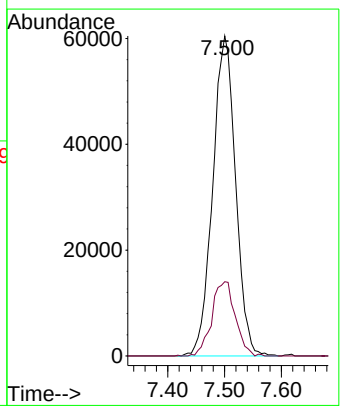


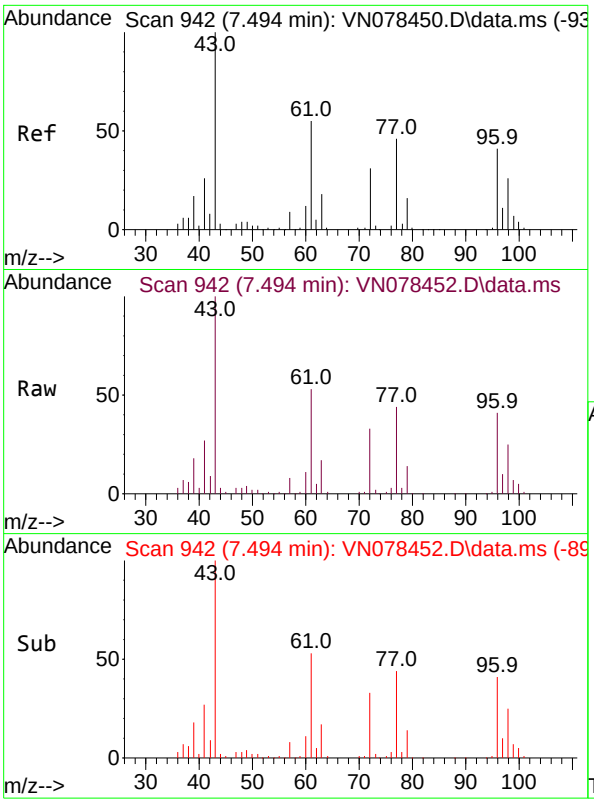


#26
2,2-Dichloropropane
Concen: 18.773 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 77 Resp: 169178

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.2	33.6

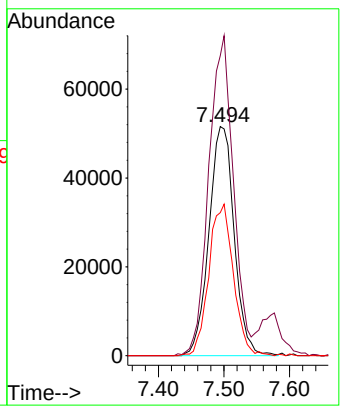




#27
cis-1,2-Dichloroethene
Concen: 19.797 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 96 Resp: 13792

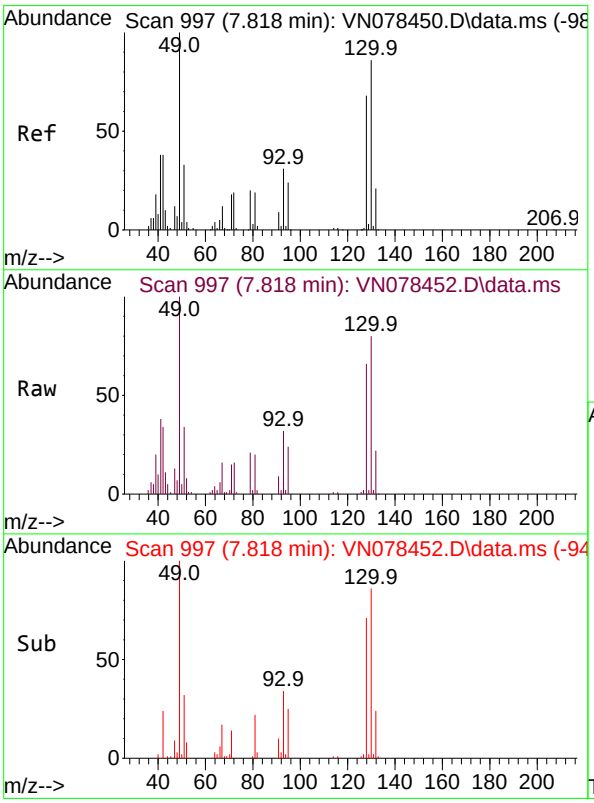
Ion	Ratio	Lower	Upper
96	100		
61	135.9	0.0	255.2
98	64.4	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

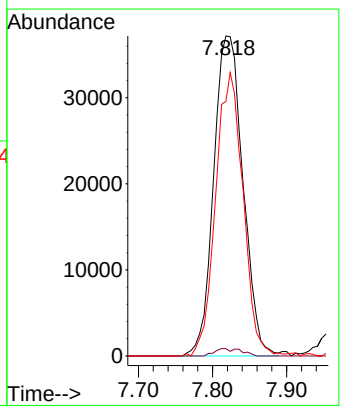
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

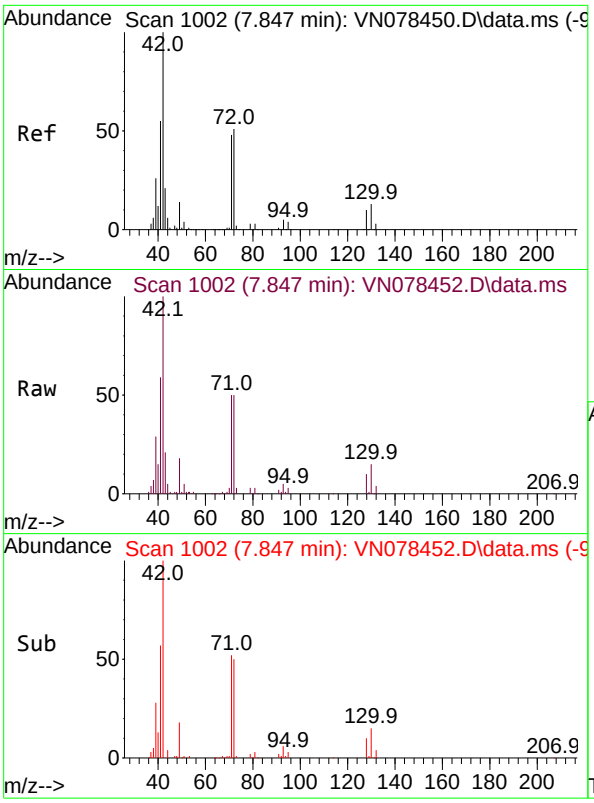


#28
Bromochloromethane
Concen: 19.662 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 49 Resp: 102041

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.8
130	82.8	75.3	112.9

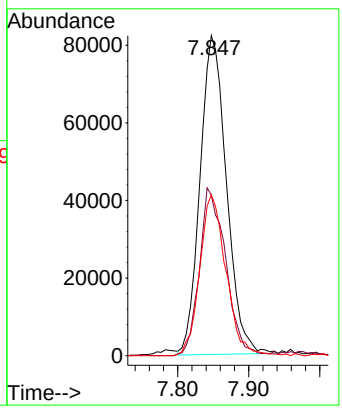




#29
Tetrahydrofuran
Concen: 97.421 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 42 Resp: 21283

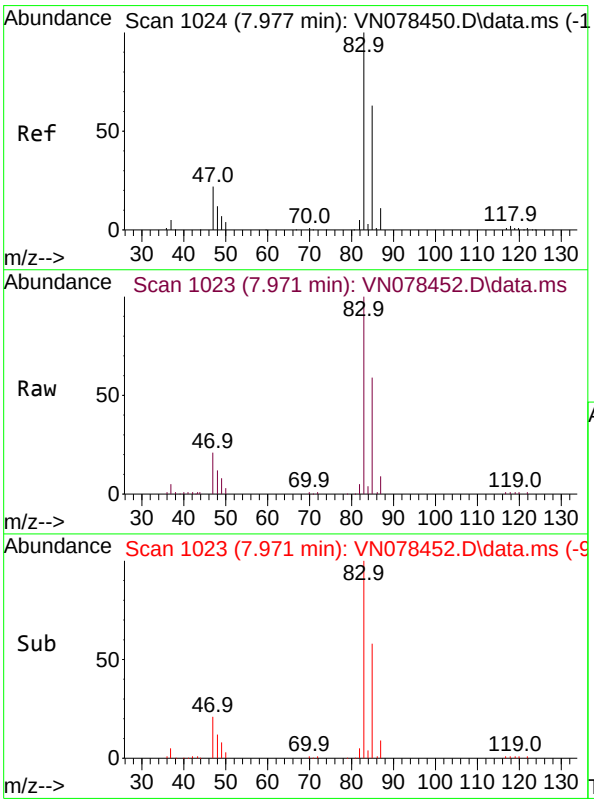
Ion	Ratio	Lower	Upper
42	100		
72	51.9	49.8	74.6
71	50.1	47.4	71.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

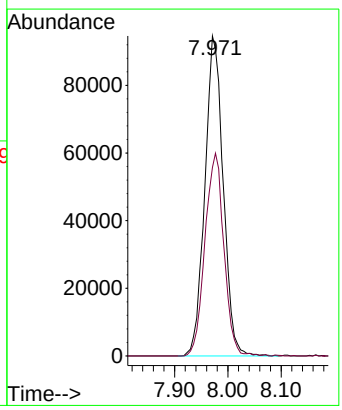
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

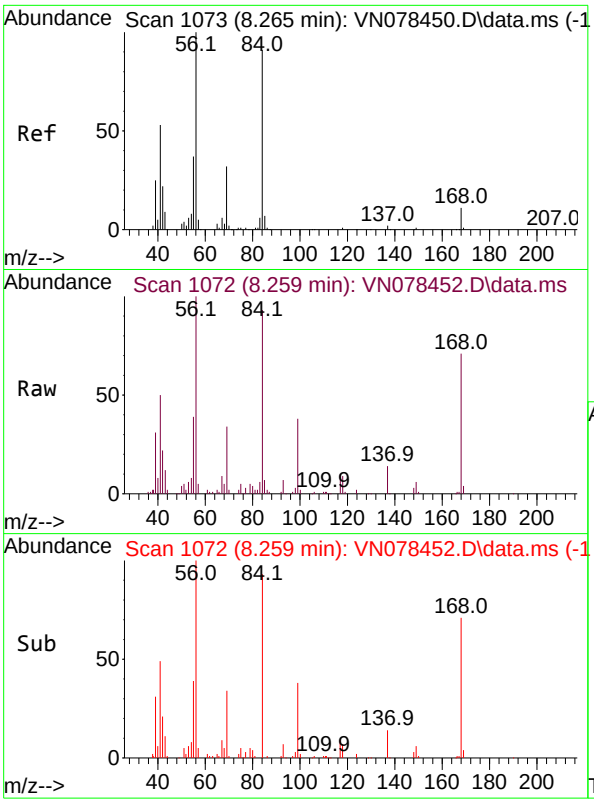


#30
Chloroform
Concen: 19.736 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 83 Resp: 226403

Ion	Ratio	Lower	Upper
83	100		
85	58.9	55.4	83.0

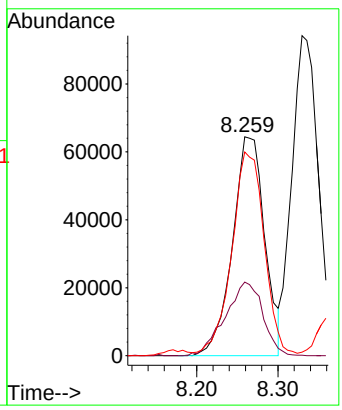




#31
Cyclohexane
Concen: 19.348 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 56 Resp: 17754

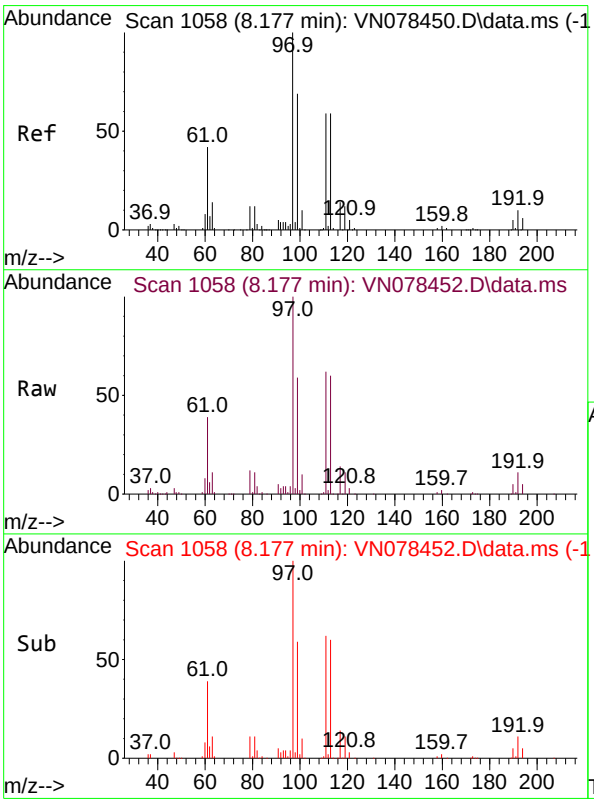
Ion	Ratio	Lower	Upper
56	100		
69	33.6	26.8	40.2
84	91.2	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

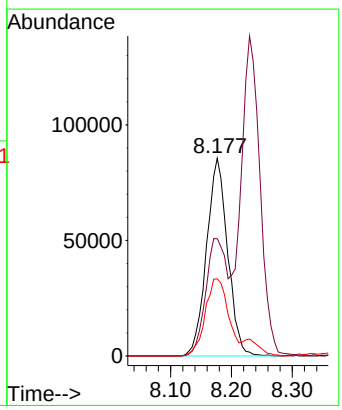
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

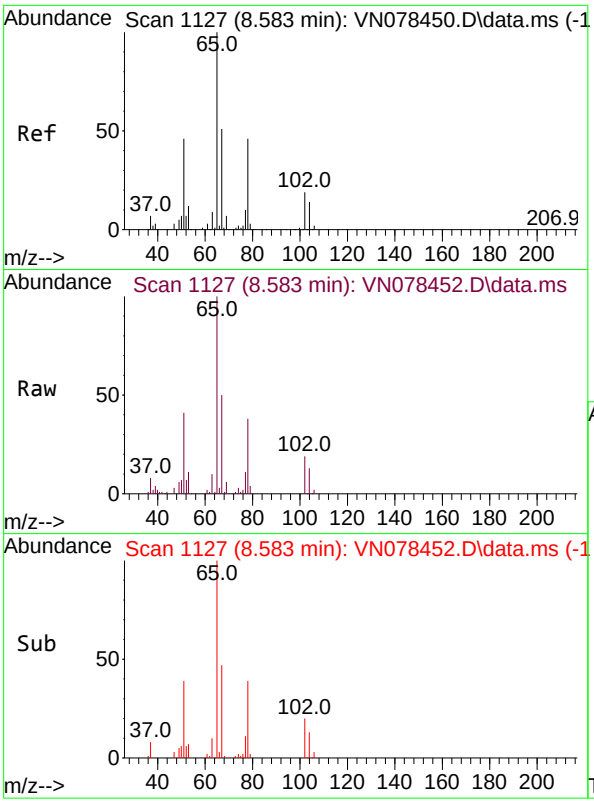


#32
1,1,1-Trichloroethane
Concen: 20.035 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 97 Resp: 206056

Ion	Ratio	Lower	Upper
97	100		
99	57.8	50.3	75.5
61	43.4	34.7	52.1

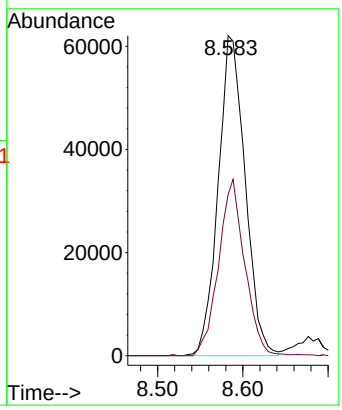




#33
1,2-Dichloroethane-d4
Concen: 20.138 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 65 Resp: 13674

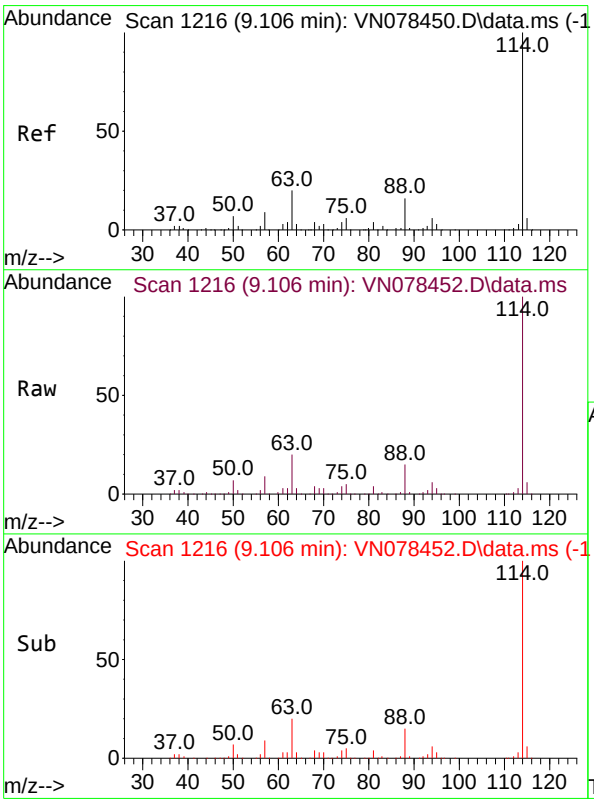
Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

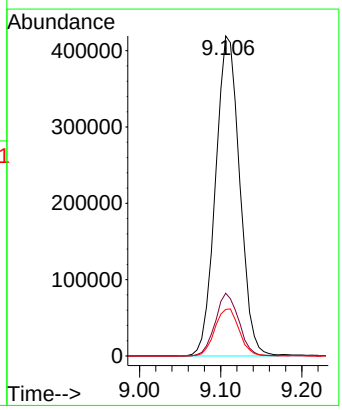
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

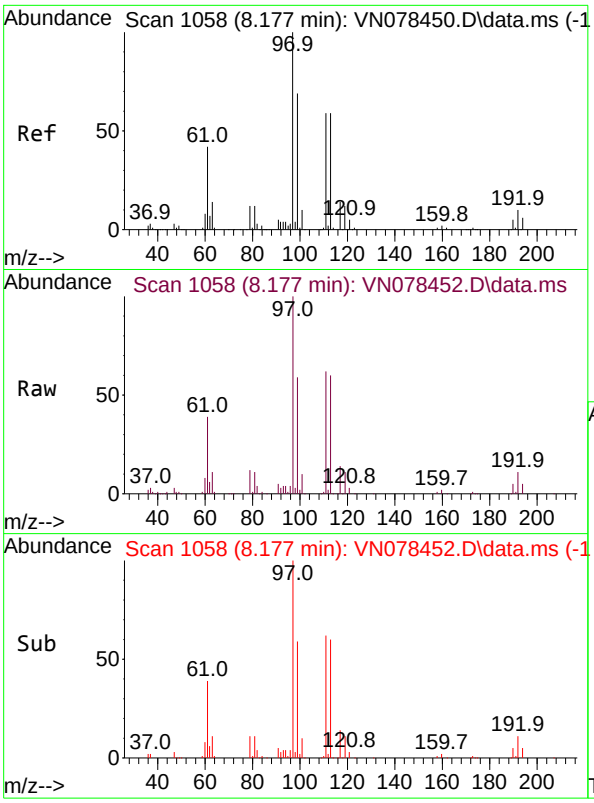


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:114 Resp: 868065

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	36.4
88	14.5	0.0	30.6

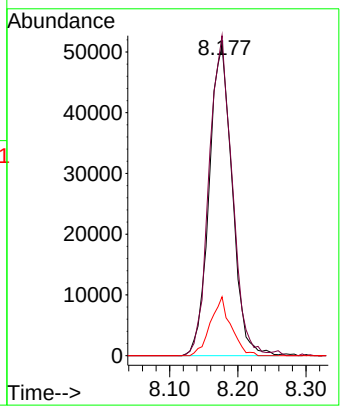




#35
Dibromofluoromethane
Concen: 20.433 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:113 Resp: 12040

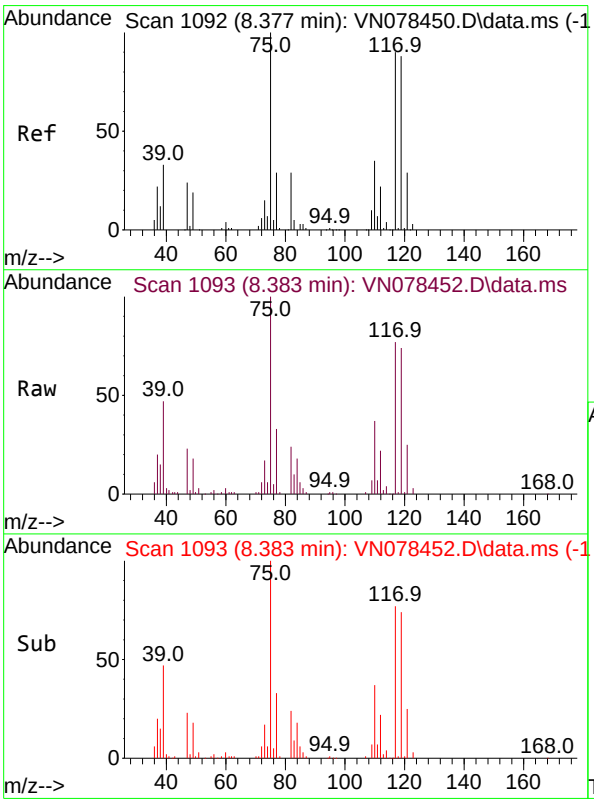
Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	16.8	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

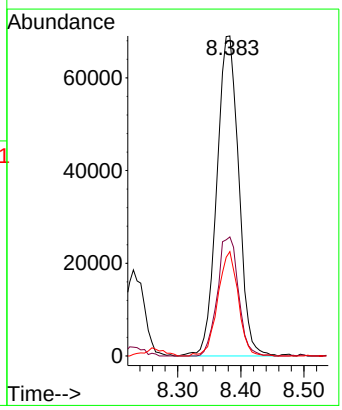
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

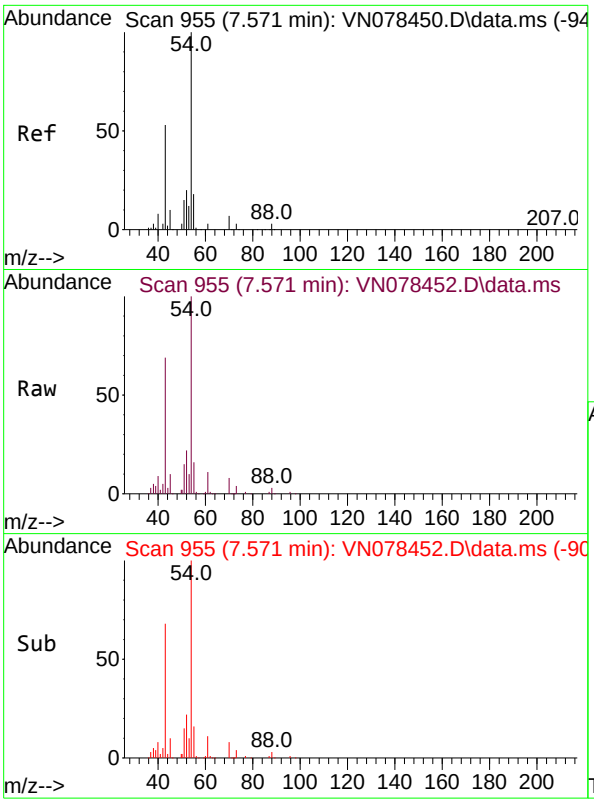


#36
1,1-Dichloropropene
Concen: 19.566 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 75 Resp: 166479

Ion	Ratio	Lower	Upper
75	100		
110	35.9	19.1	57.3
77	30.5	25.0	37.4





#37
Ethyl Acetate
Concen: 20.811 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

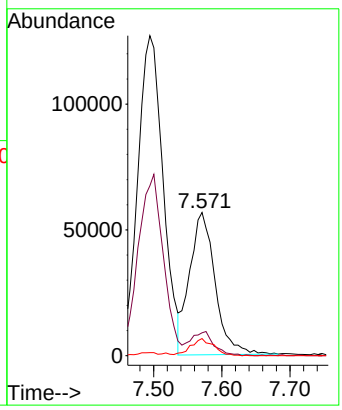
Tgt Ion: 43 Resp: 14760

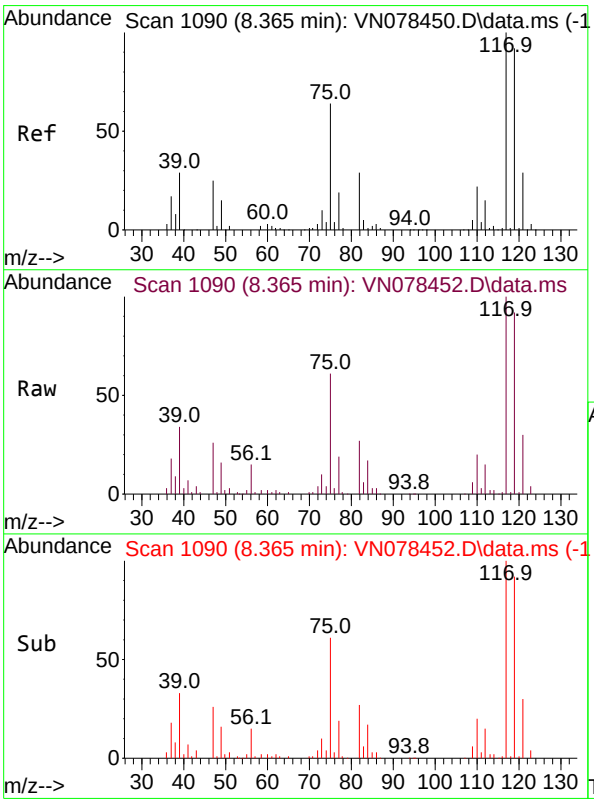
Ion	Ratio	Lower	Upper
43	100		
61	15.6	13.2	19.8
70	10.7	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

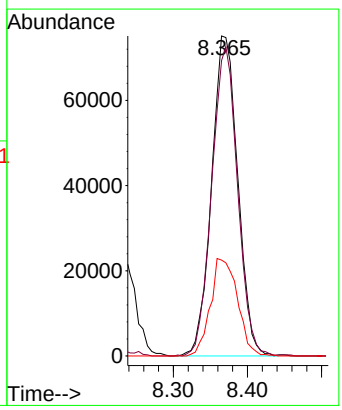


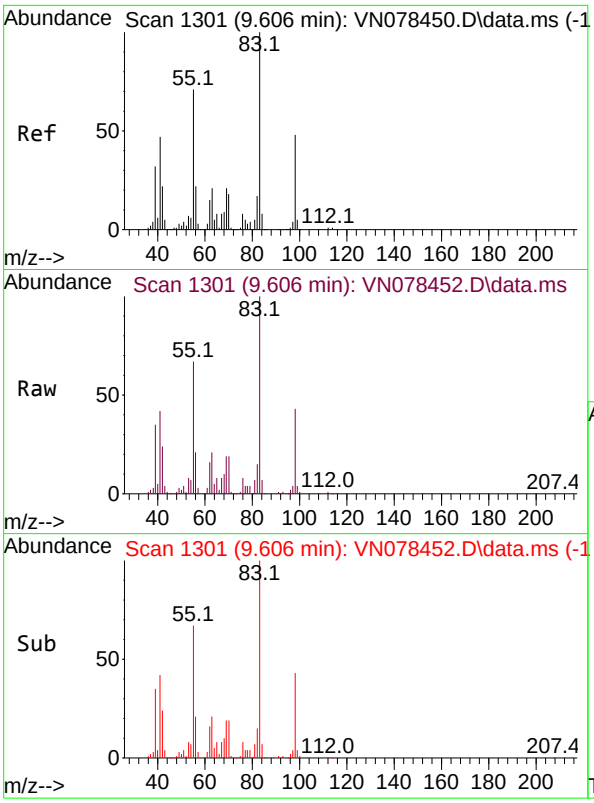


#38
Carbon Tetrachloride
Concen: 19.923 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:117 Resp: 184232

Ion	Ratio	Lower	Upper
117	100		
119	92.0	77.3	115.9
121	29.9	23.3	34.9

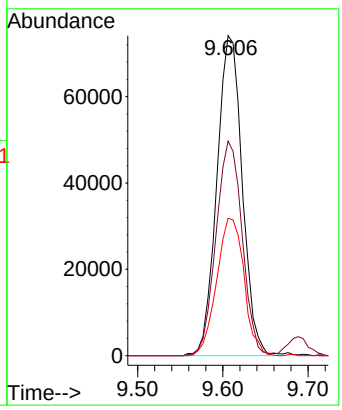




#39
Methylcyclohexane
Concen: 19.769 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 83 Resp: 15353

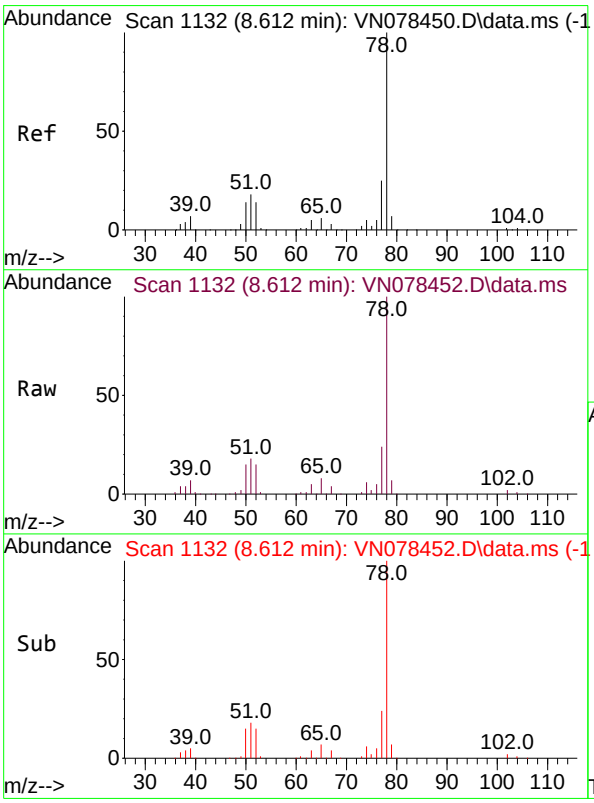
Ion	Ratio	Lower	Upper
83	100		
55	67.1	49.1	73.7
98	42.9	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

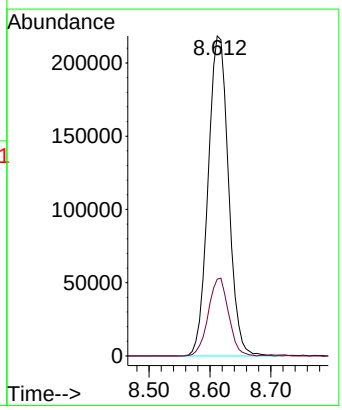
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

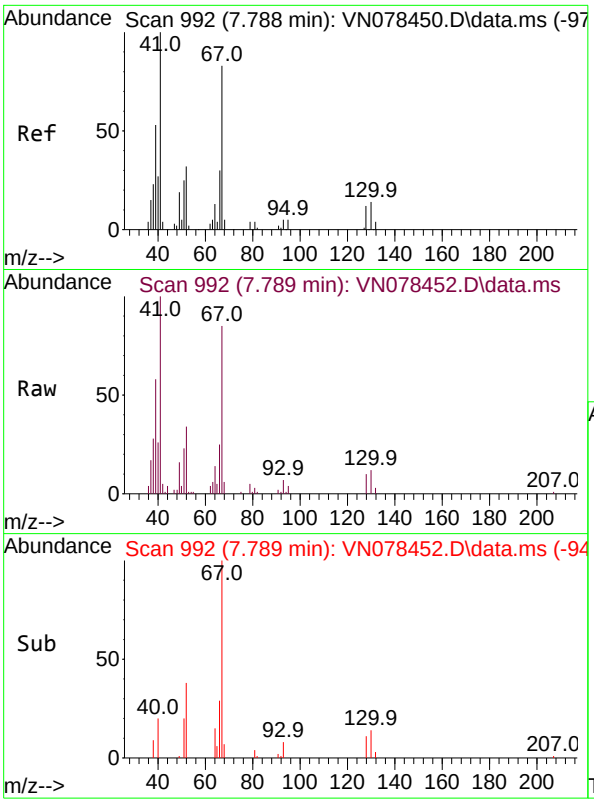


#40
Benzene
Concen: 20.157 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 78 Resp: 508110

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6

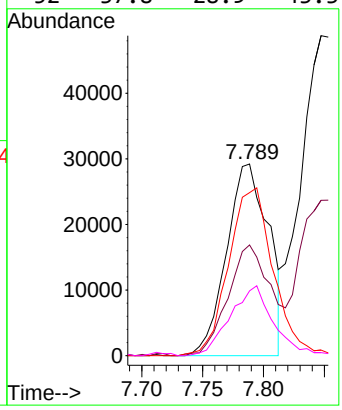




#41
Methacrylonitrile
Concen: 19.421 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.001 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 41 Resp: 7022

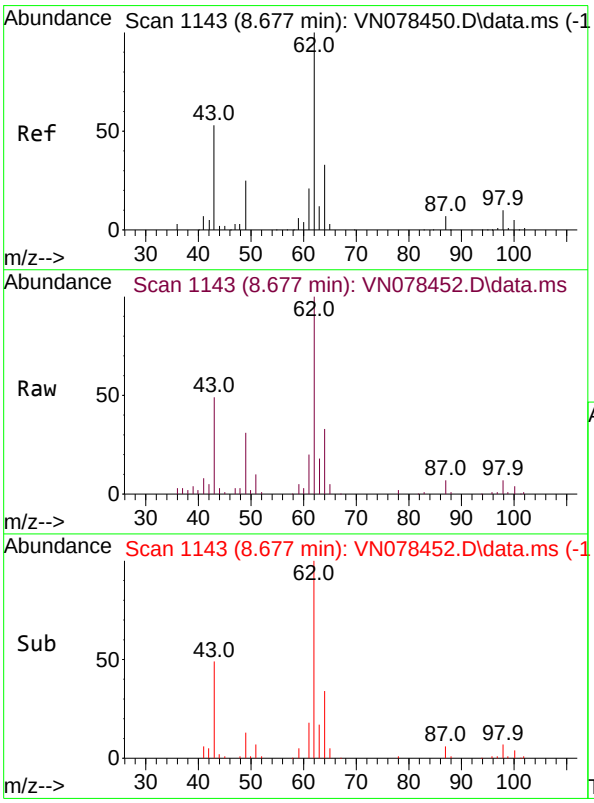
Ion	Ratio	Lower	Upper
41	100		
39	60.2	42.6	64.0
67	93.2	77.5	116.3
52	37.8	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

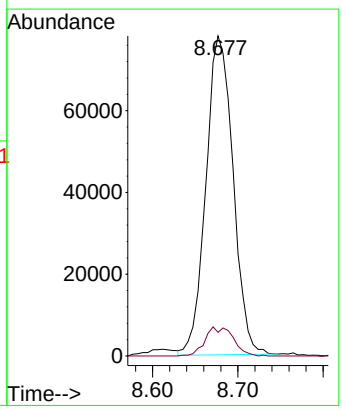
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

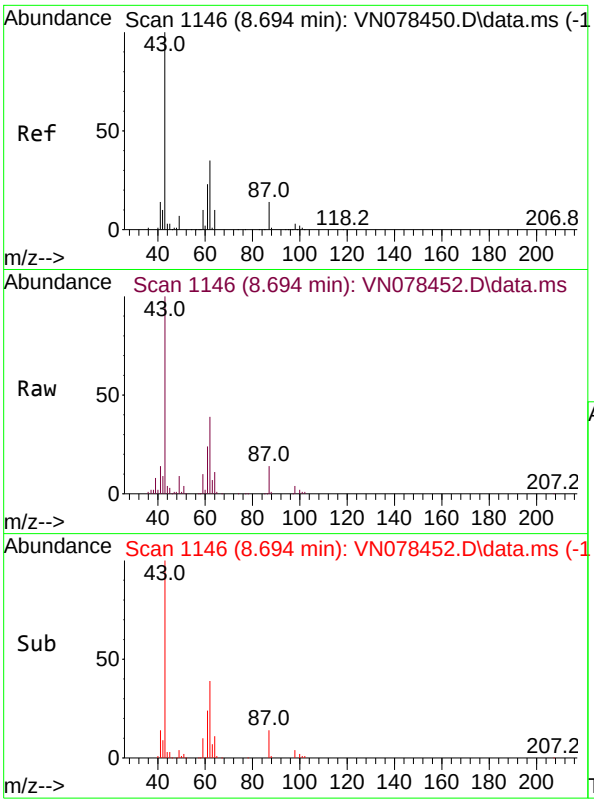


#42
1,2-Dichloroethane
Concen: 20.143 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 62 Resp: 172703

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8





#43
Isopropyl Acetate
Concen: 20.915 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

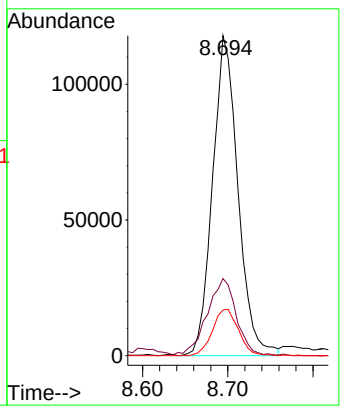
Tgt Ion: 43 Resp: 24423

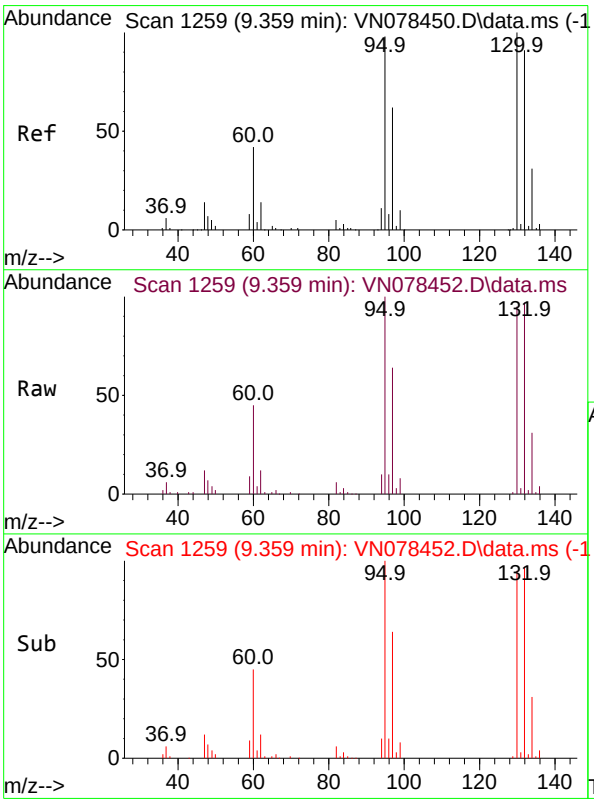
Ion	Ratio	Lower	Upper
43	100		
61	27.2	24.7	37.1
87	14.9	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

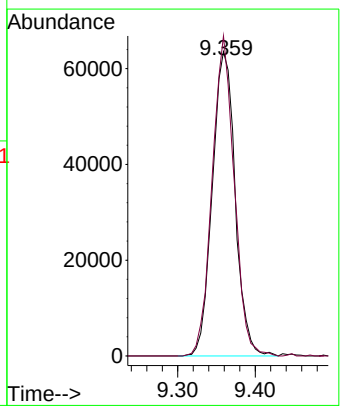


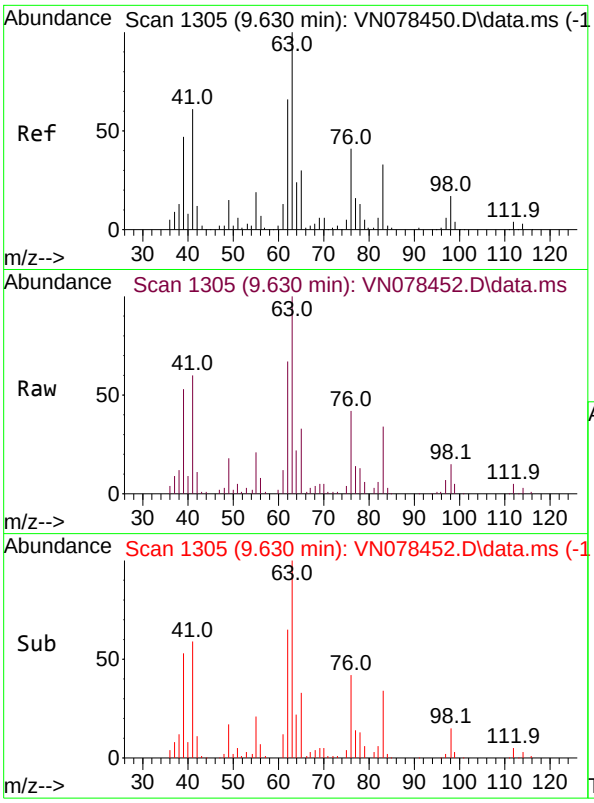


#44
Trichloroethene
Concen: 19.193 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:130 Resp: 130391

Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	204.6

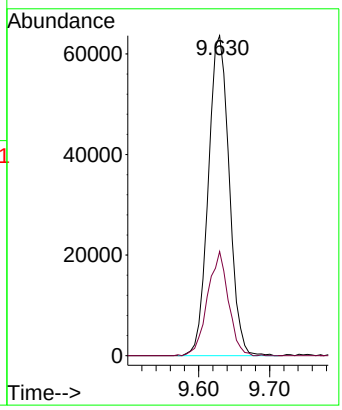




#45
1,2-Dichloropropane
Concen: 20.327 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 63 Resp: 12977

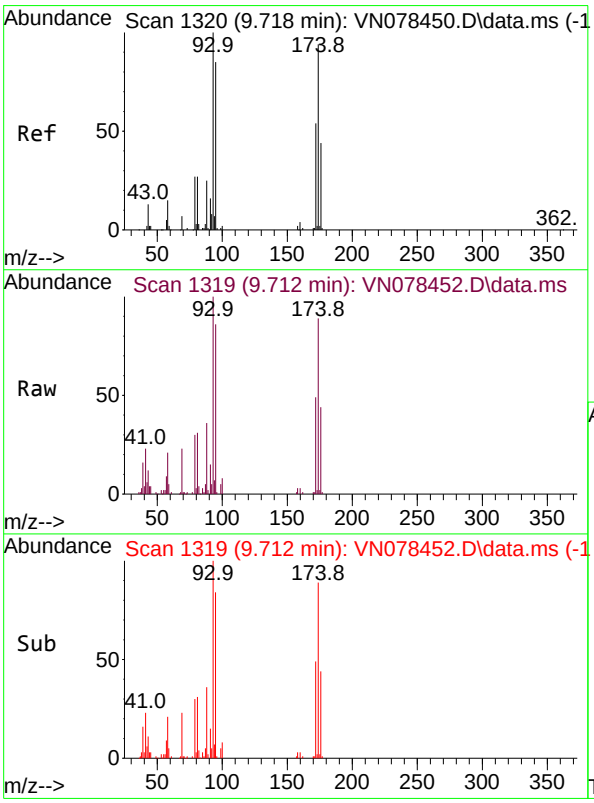
Ion	Ratio	Lower	Upper
63	100		
65	32.5	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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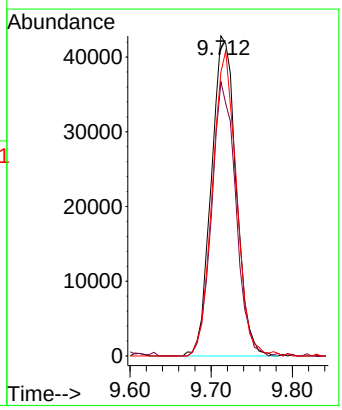
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

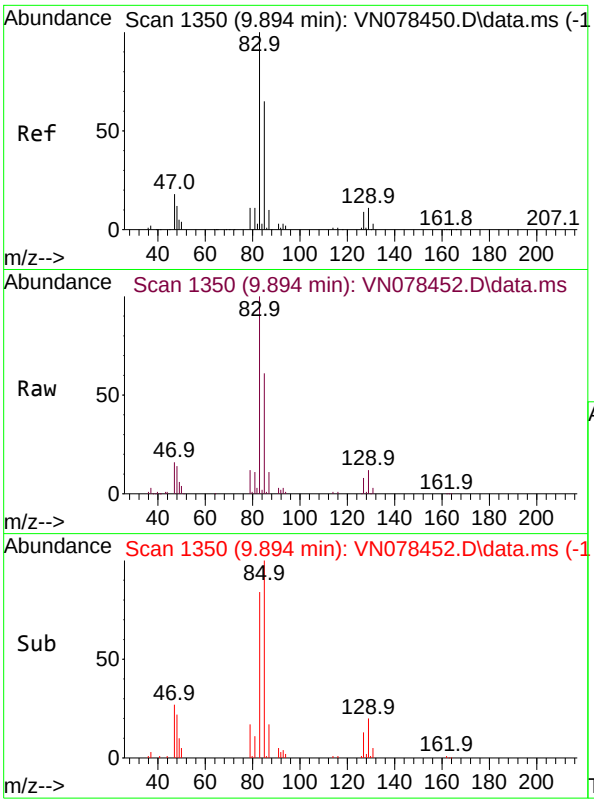


#46
Dibromomethane
Concen: 20.185 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 93 Resp: 90702

Ion	Ratio	Lower	Upper
93	100		
95	83.3	63.8	95.8
174	92.5	65.6	98.4

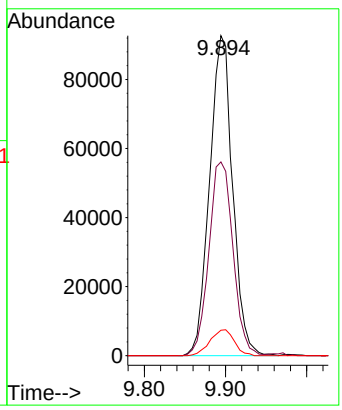




#47
Bromodichloromethane
Concen: 20.283 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 83 Resp: 18270

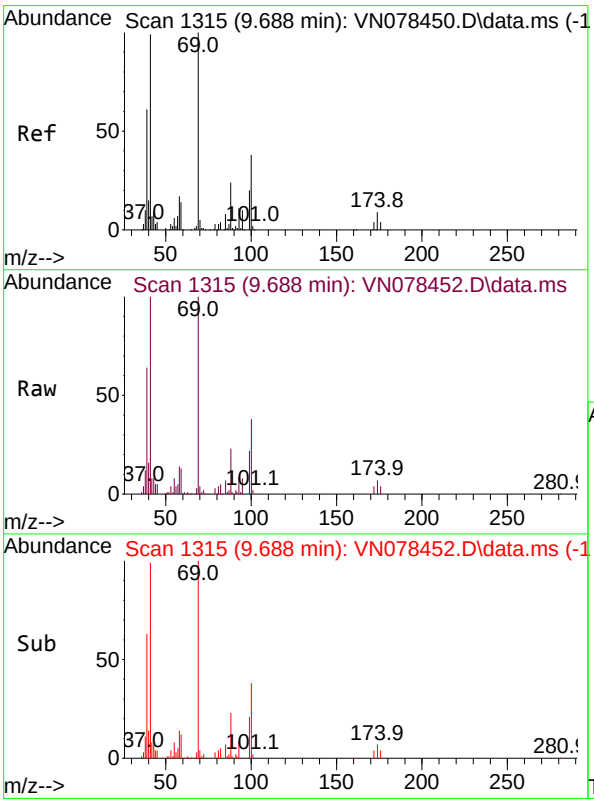
Ion	Ratio	Lower	Upper
83	100		
85	60.5	49.6	74.4
127	8.0	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

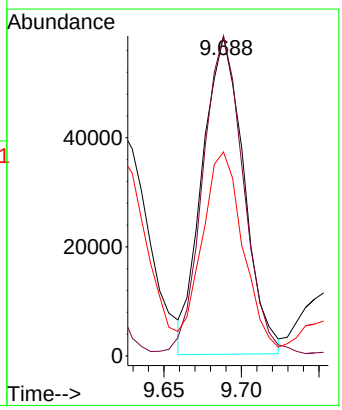
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

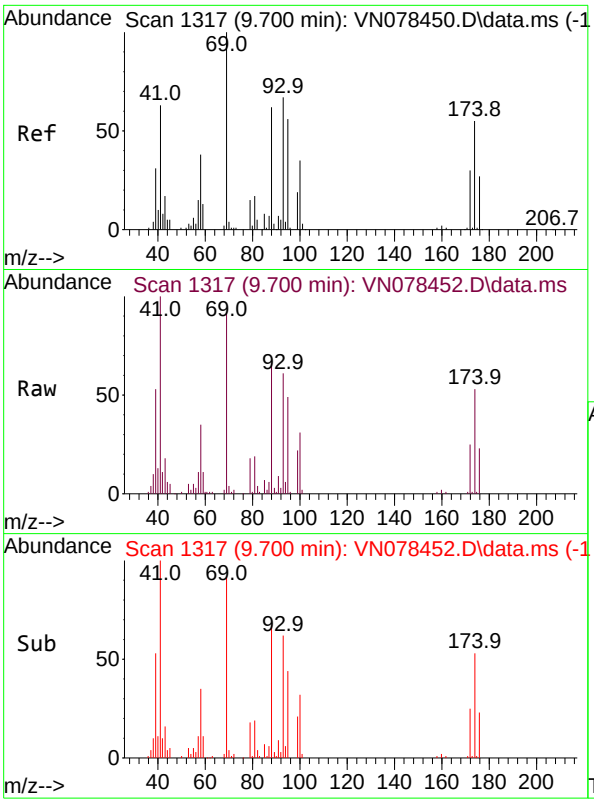


#48
Methyl methacrylate
Concen: 19.995 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 41 Resp: 108172

Ion	Ratio	Lower	Upper
41	100		
69	98.2	90.4	135.6
39	64.4	54.6	81.8

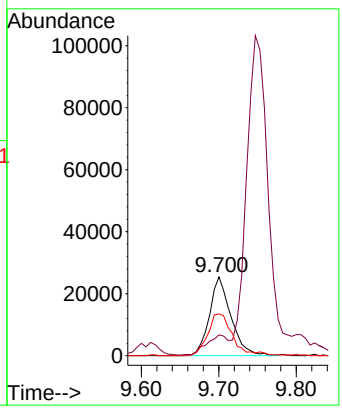




#49
1,4-Dioxane
Concen: 414.856 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 88 Resp: 4894

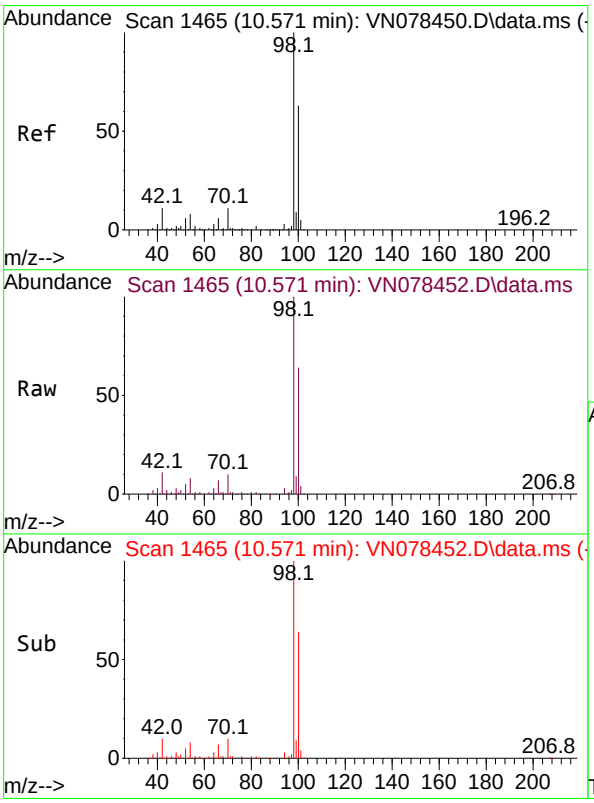
Ion	Ratio	Lower	Upper
88	100		
43	24.4	17.0	25.6
58	61.7	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

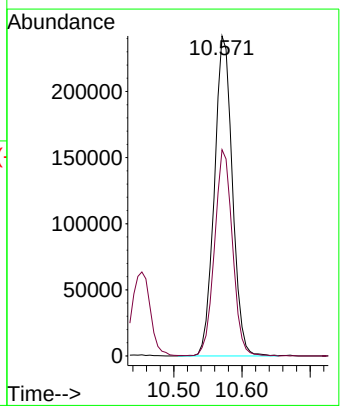
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

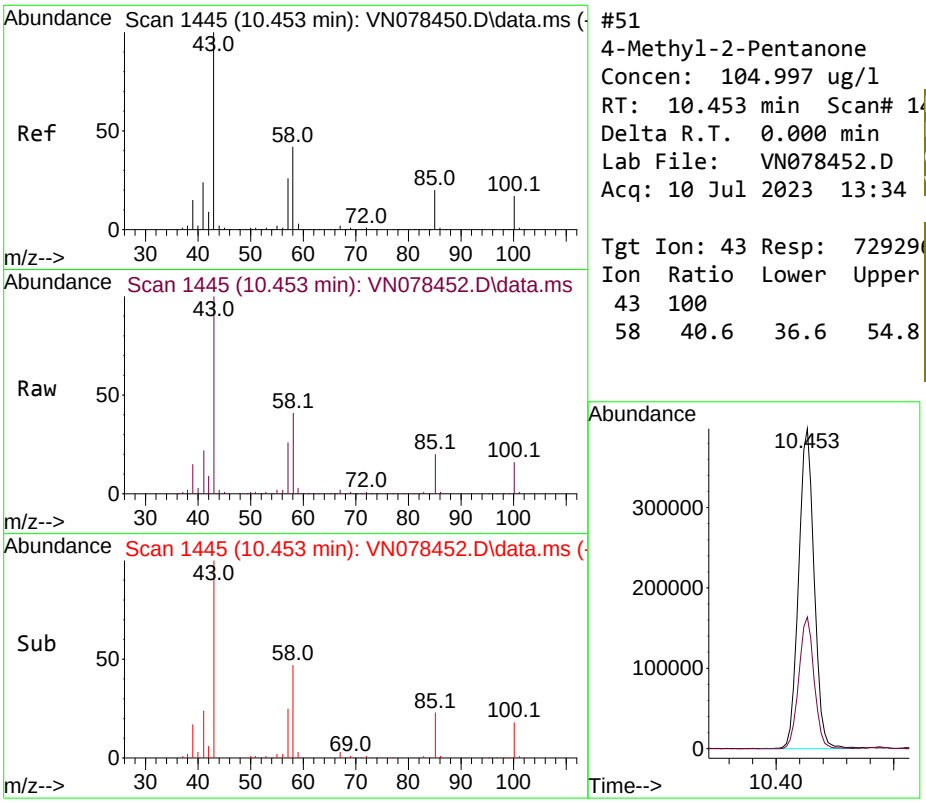


#50
Toluene-d8
Concen: 19.986 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 98 Resp: 444912

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 104.997 ug/l
RT: 10.453 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

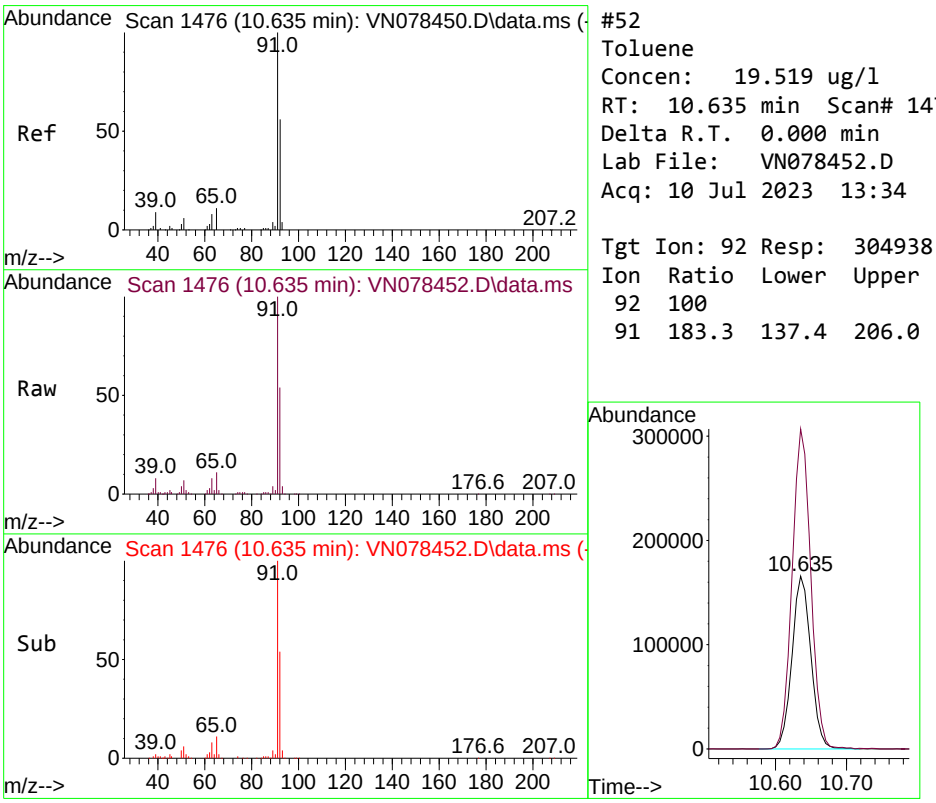
Tgt Ion: 43 Resp: 72929

Ion	Ratio	Lower	Upper
43	100		
58	40.6	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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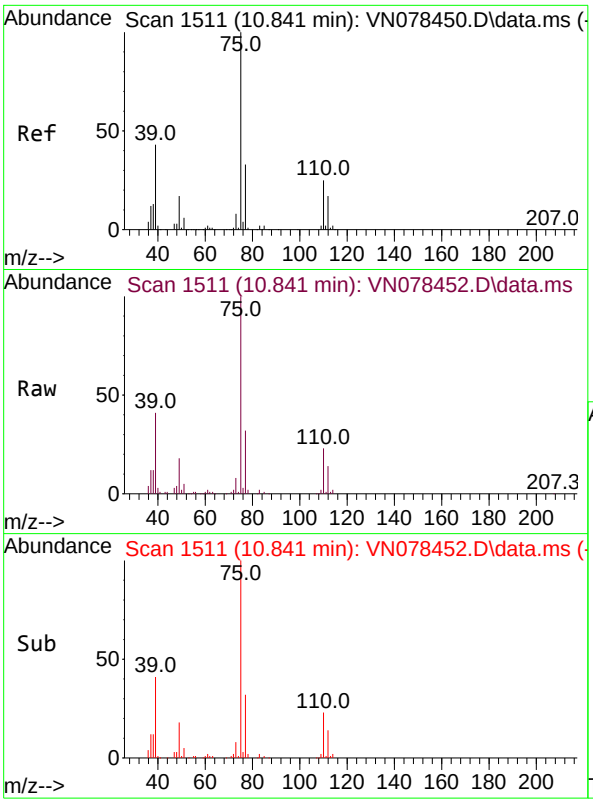
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#52
Toluene
Concen: 19.519 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 92 Resp: 304938

Ion	Ratio	Lower	Upper
92	100		
91	183.3	137.4	206.0



#53
t-1,3-Dichloropropene
Concen: 19.973 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

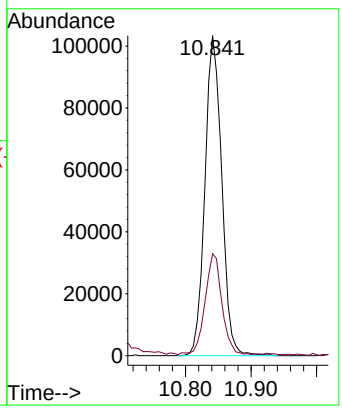
Tgt Ion: 75 Resp: 18431

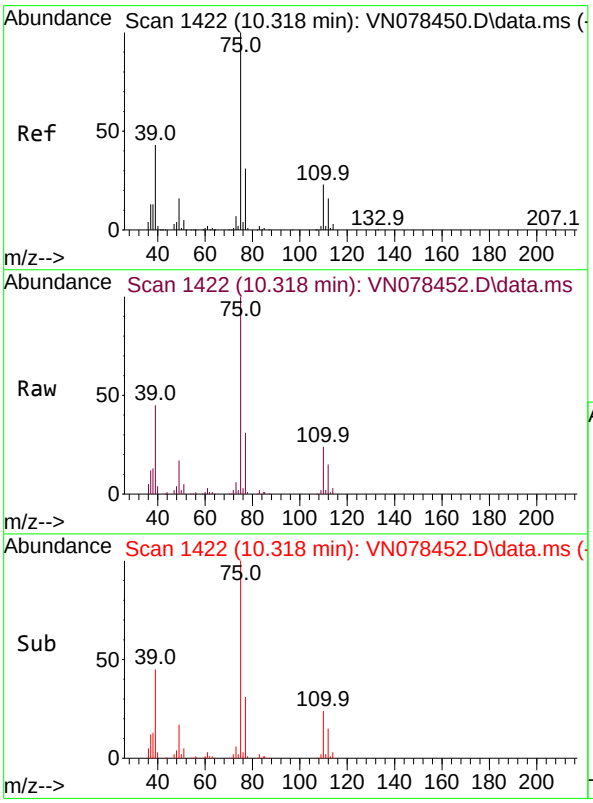
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

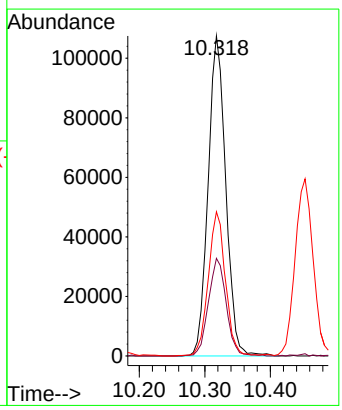


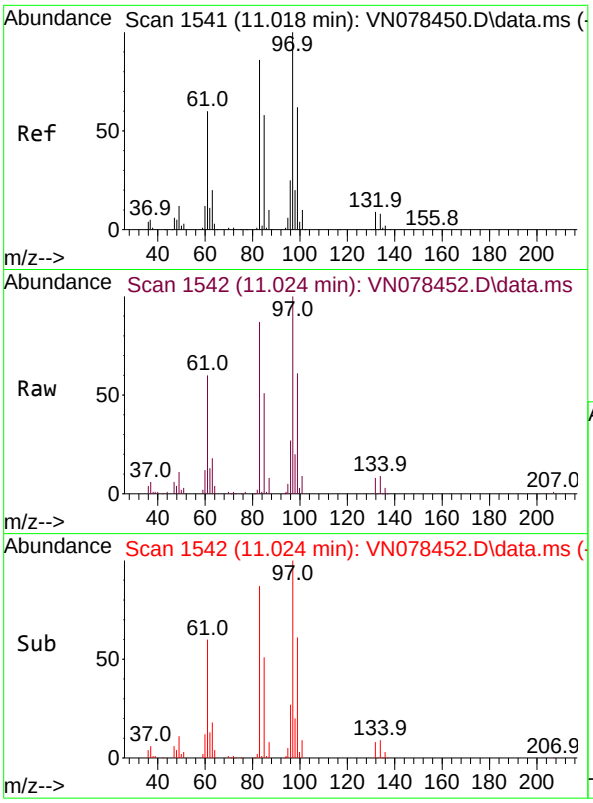


#54
cis-1,3-Dichloropropene
Concen: 20.413 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 75 Resp: 200793

Ion	Ratio	Lower	Upper
75	100		
77	30.5	26.1	39.1
39	44.9	31.6	47.4

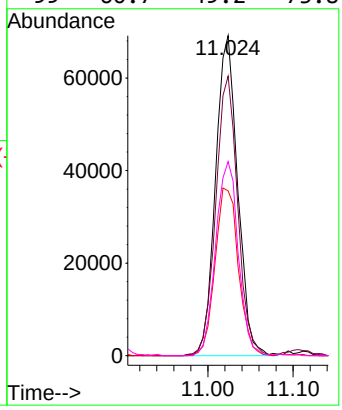




#55
1,1,2-Trichloroethane
Concen: 20.269 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 97 Resp: 12476

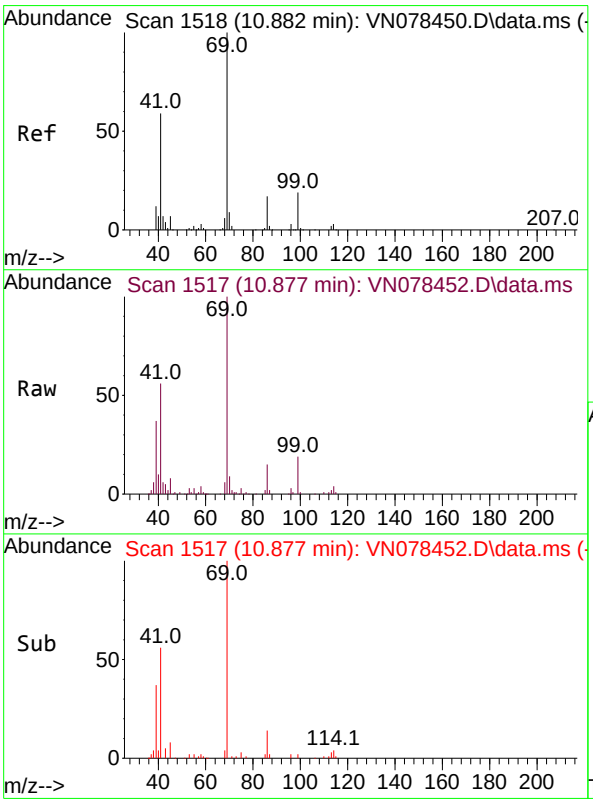
Ion	Ratio	Lower	Upper
97	100		
83	87.3	65.1	97.7
85	51.5	43.4	65.2
99	60.7	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

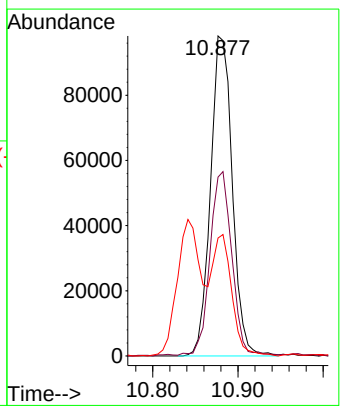
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

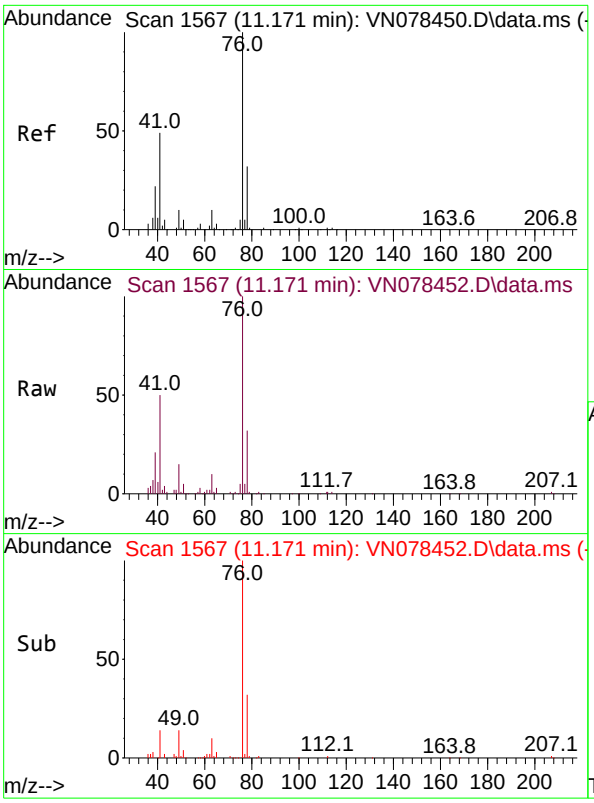


#56
Ethyl methacrylate
Concen: 20.311 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.005 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 69 Resp: 174763

Ion	Ratio	Lower	Upper
69	100		
41	57.2	39.6	59.4
39	33.0	28.6	43.0

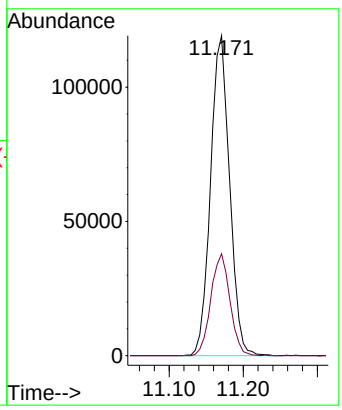




#57
1,3-Dichloropropane
Concen: 20.342 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 76 Resp: 21289

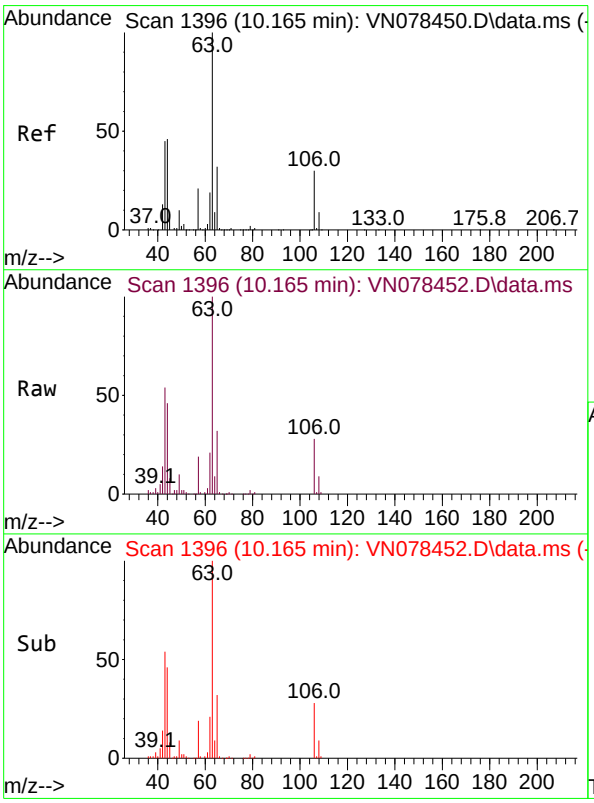
Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

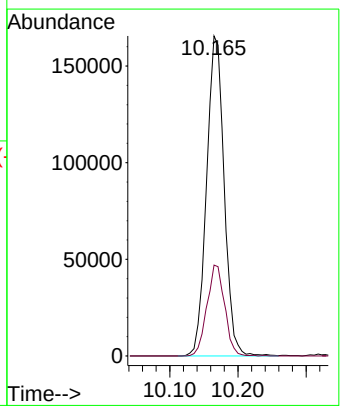
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

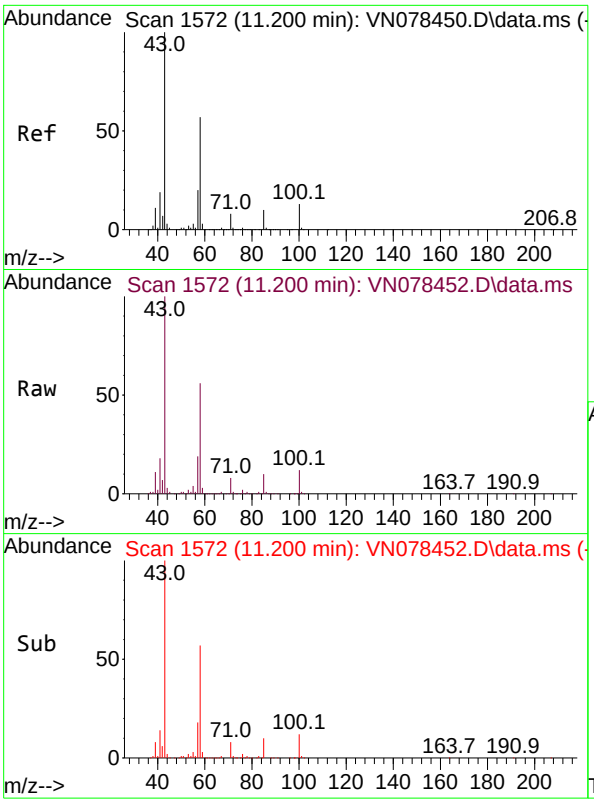


#58
2-Chloroethyl Vinyl ether
Concen: 97.023 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 63 Resp: 297509

Ion	Ratio	Lower	Upper
63	100		
106	28.6	26.2	39.4





#59
2-Hexanone
Concen: 102.278 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

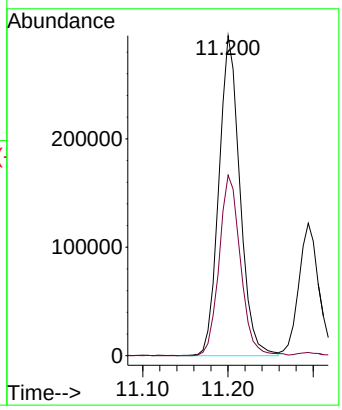
Tgt Ion: 43 Resp: 50489

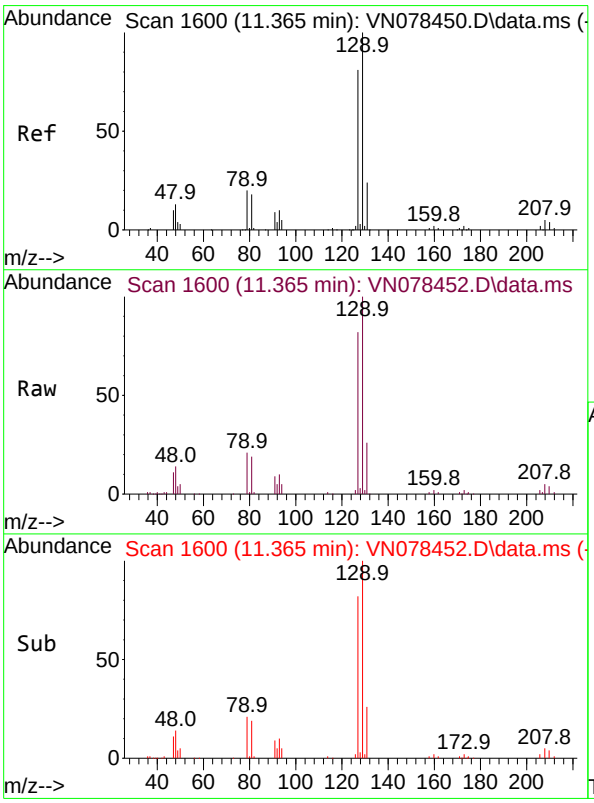
Ion	Ratio	Lower	Upper
43	100		
58	57.2	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

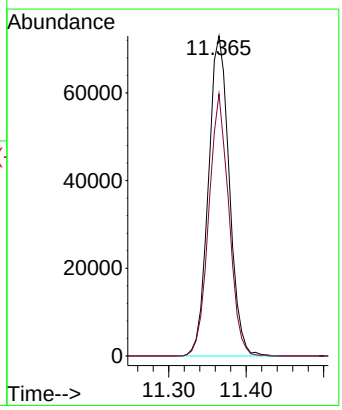


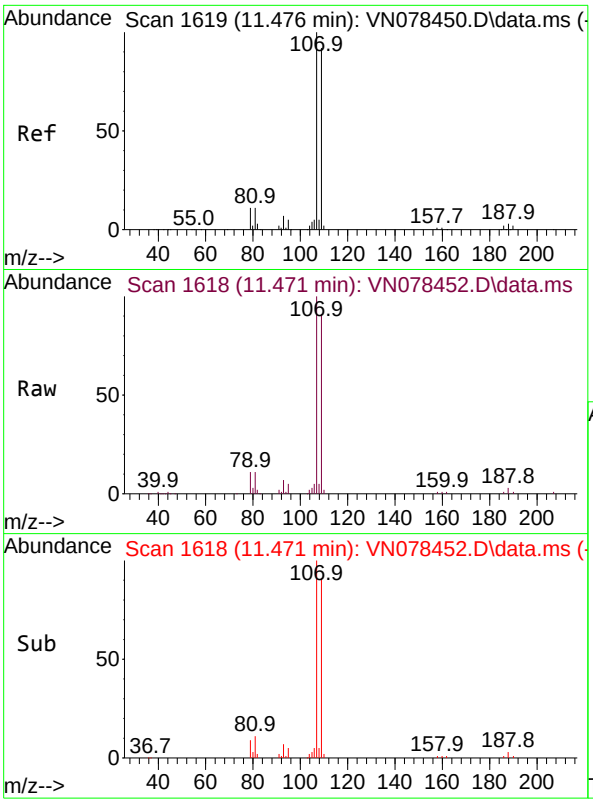


#60
Dibromochloromethane
Concen: 20.086 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:129 Resp: 136492

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.6	116.0

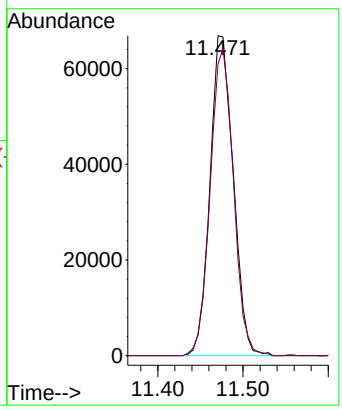




#61
1,2-Dibromoethane
Concen: 20.054 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.005 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:107 Resp: 12716

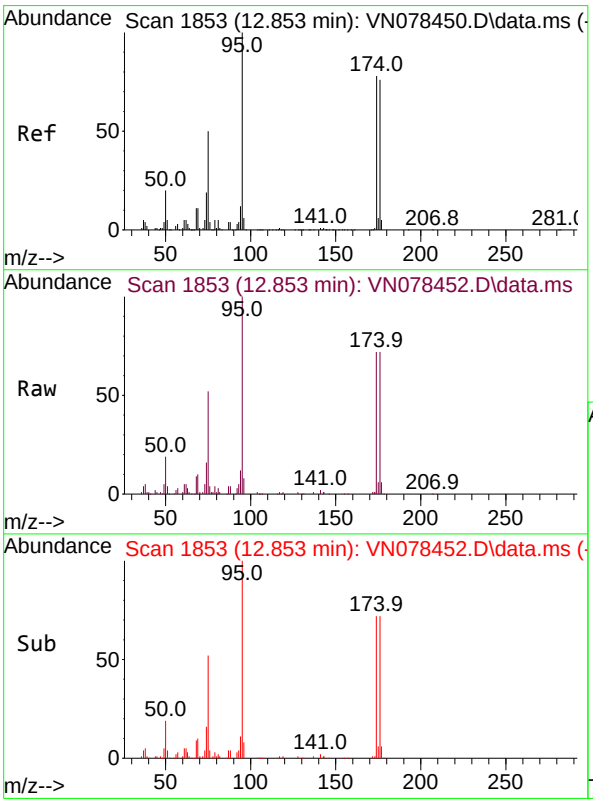
Ion	Ratio	Lower	Upper
107	100		
109	95.5	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

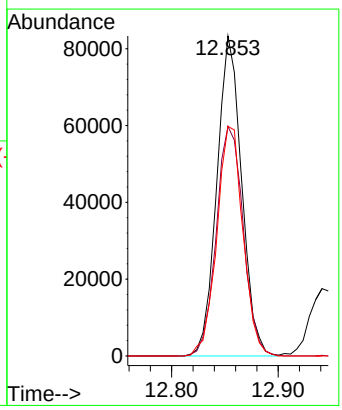
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

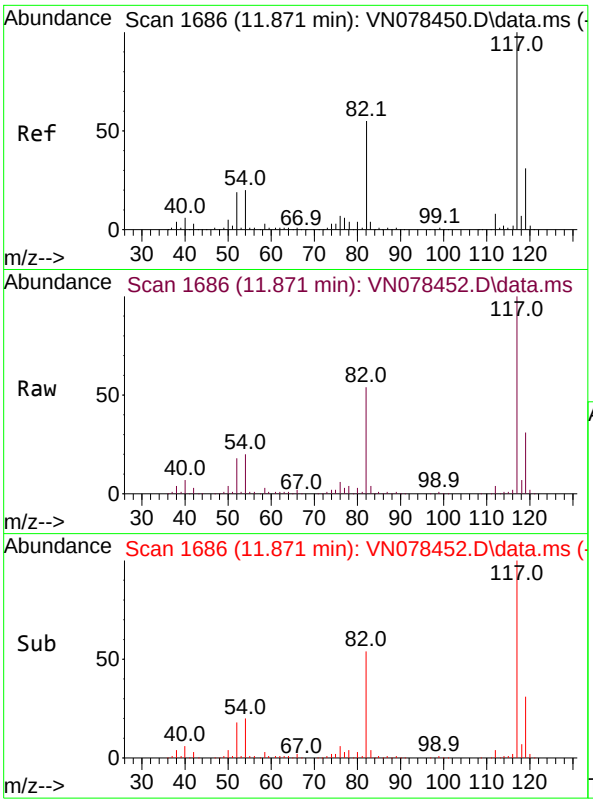


#62
4-Bromofluorobenzene
Concen: 19.628 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 95 Resp: 134584

Ion	Ratio	Lower	Upper
95	100		
174	78.0	0.0	143.8
176	75.7	0.0	135.8

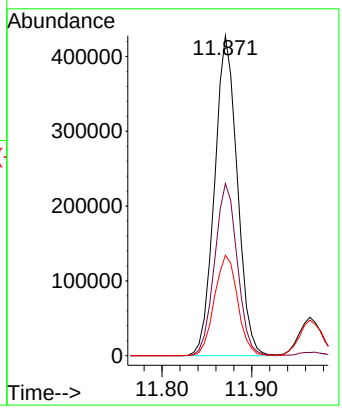




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:117 Resp: 75172

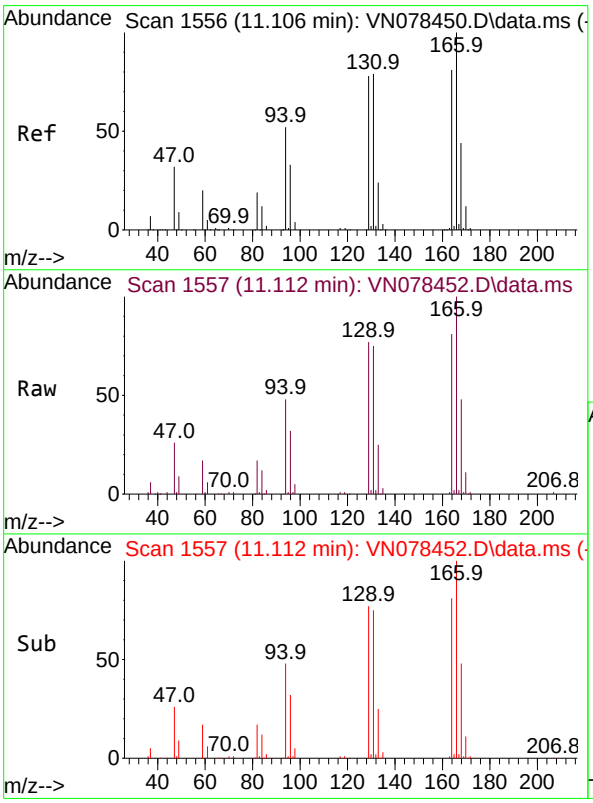
Ion	Ratio	Lower	Upper
117	100		
82	53.8	44.0	66.0
119	31.4	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

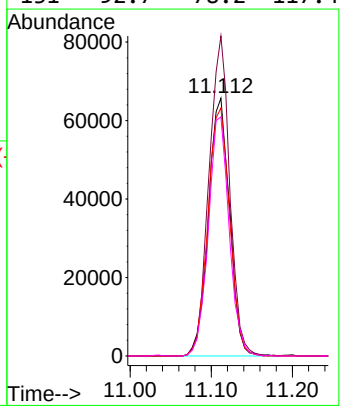
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

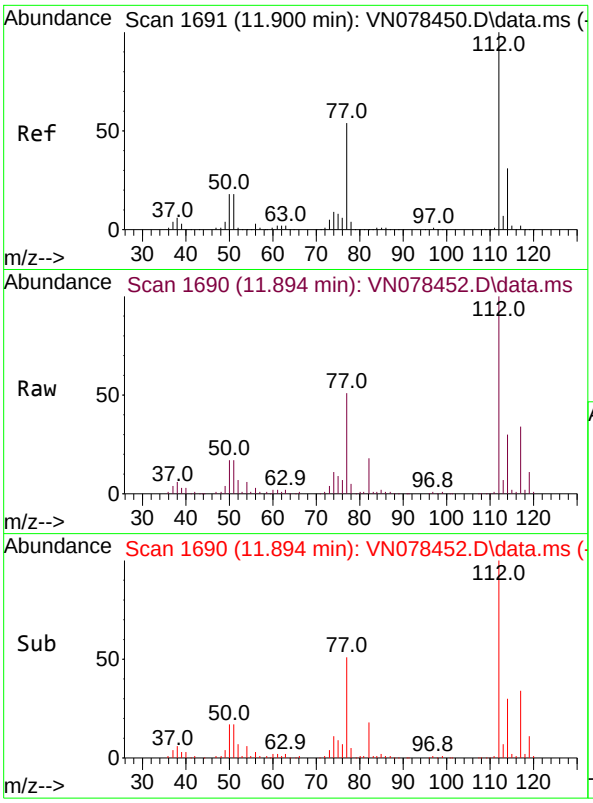


#64
Tetrachloroethene
Concen: 21.051 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:164 Resp: 118973

Ion	Ratio	Lower	Upper
164	100		
166	124.1	101.4	152.0
129	96.2	82.4	123.6
131	92.7	78.2	117.4

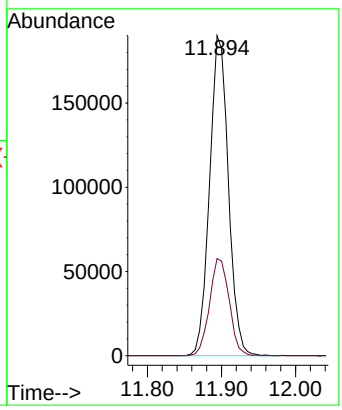




#65
Chlorobenzene
Concen: 19.899 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:112 Resp: 33436

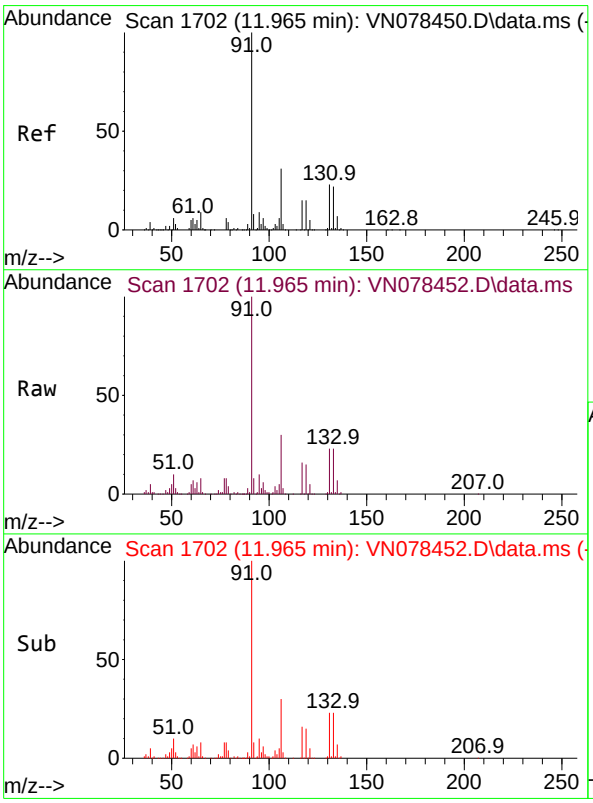
Ion	Ratio	Lower	Upper
112	100		
114	30.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

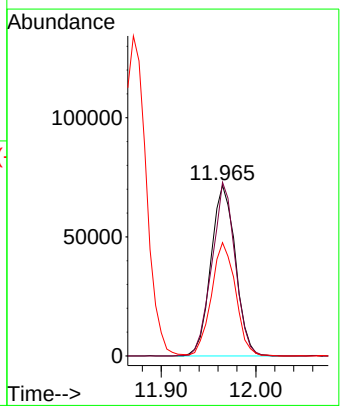
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

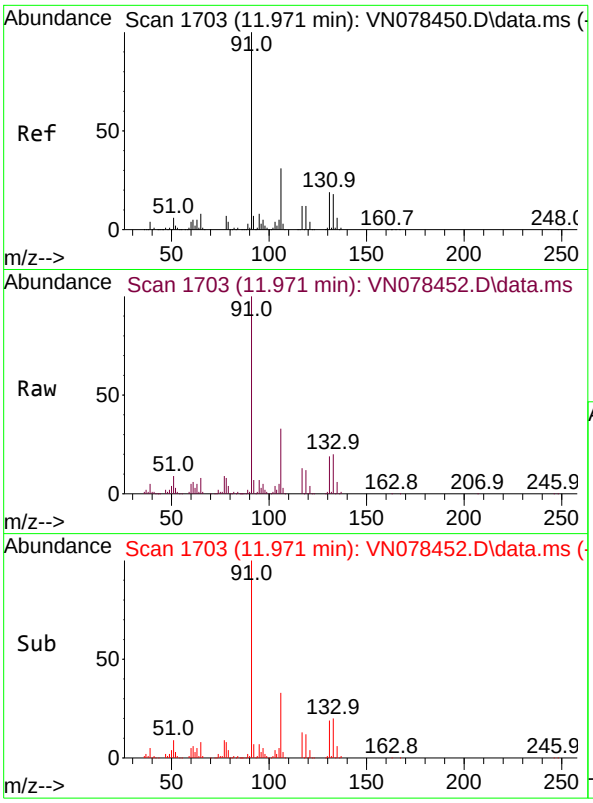


#66
1,1,1,2-Tetrachloroethane
Concen: 19.964 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:131 Resp: 129045

Ion	Ratio	Lower	Upper
131	100		
133	96.9	46.4	139.1
119	65.5	34.1	102.2





#67
Ethyl Benzene
Concen: 20.423 ug/l
RT: 11.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

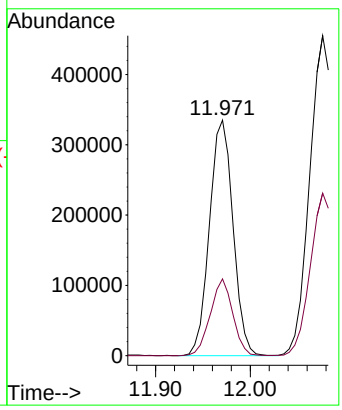
Tgt Ion: 91 Resp: 58006

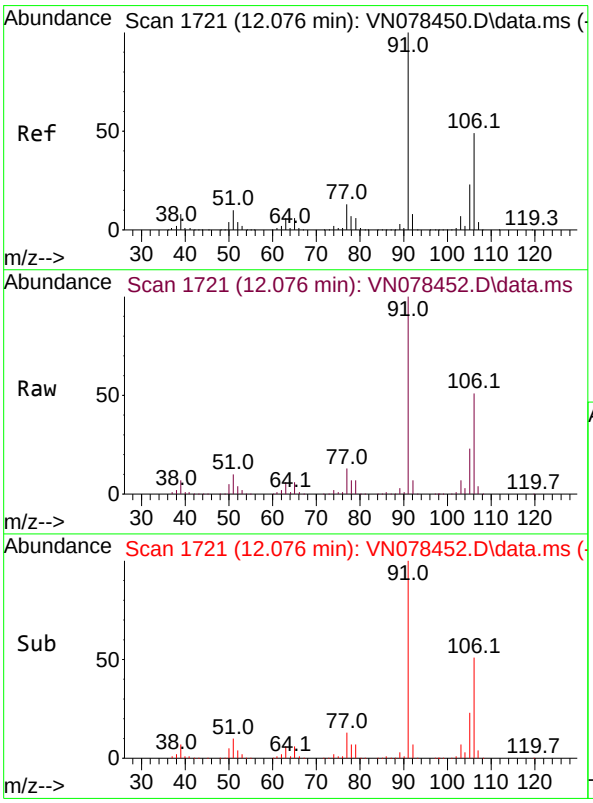
Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

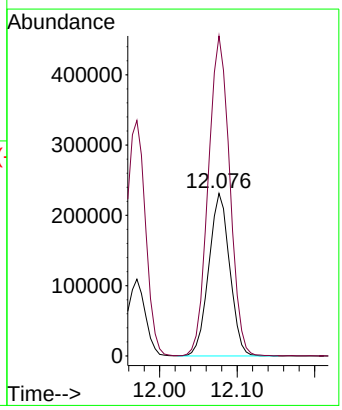


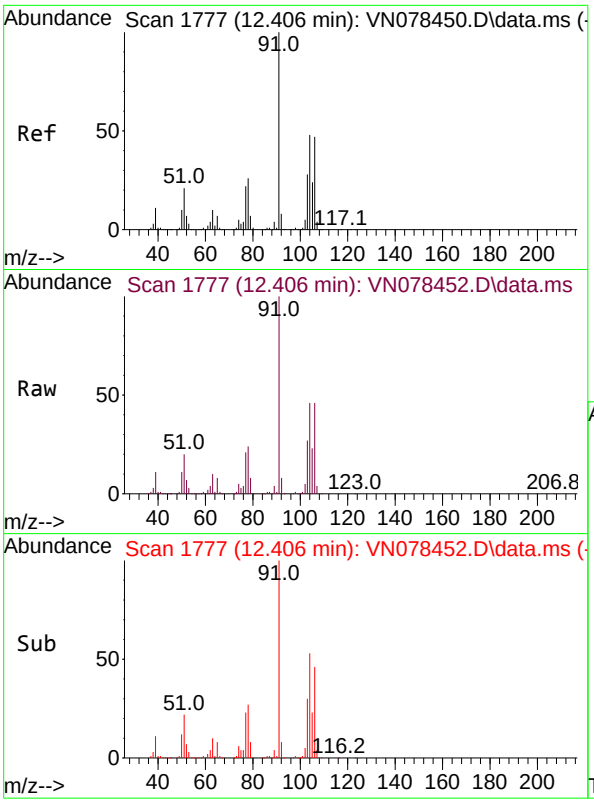


#68
m/p-Xylenes
Concen: 41.312 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:106 Resp: 433823

Ion	Ratio	Lower	Upper
106	100		
91	202.0	159.6	239.4





#69
o-Xylene
Concen: 20.221 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

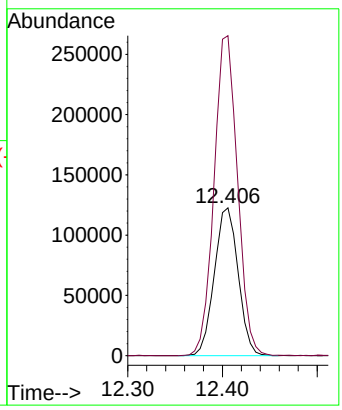
Tgt Ion:106 Resp: 21447

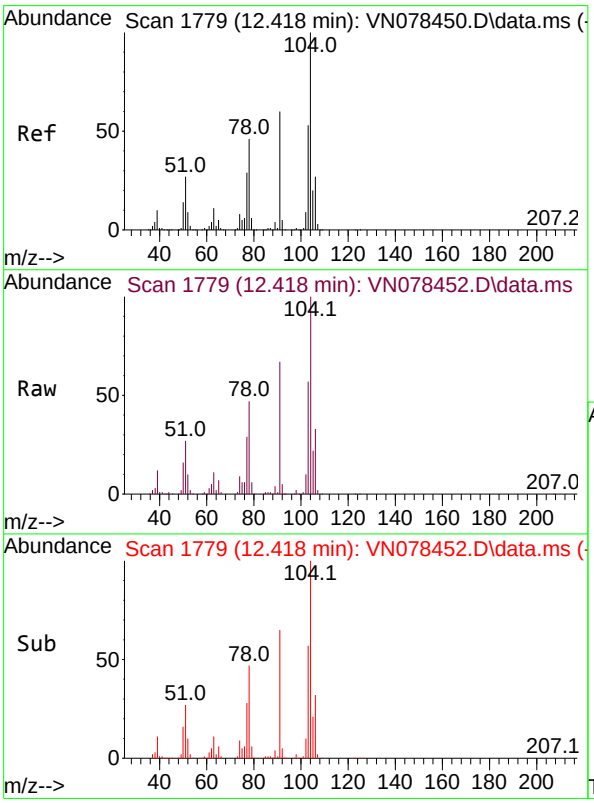
Ion	Ratio	Lower	Upper
106	100		
91	213.6	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

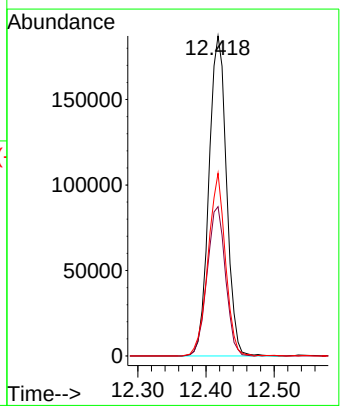


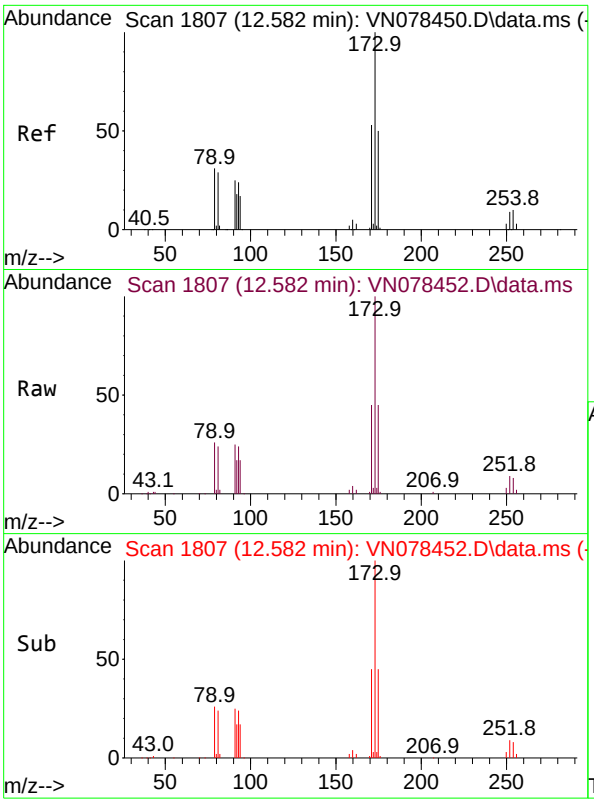


#70
Styrene
Concen: 20.241 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:104 Resp: 335885

Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.5	59.3
103	56.4	43.2	64.8

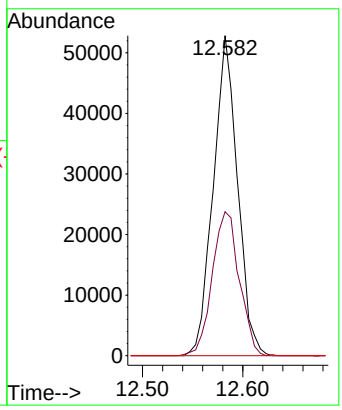




#71
Bromoform
Concen: 20.203 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:173 Resp: 8844

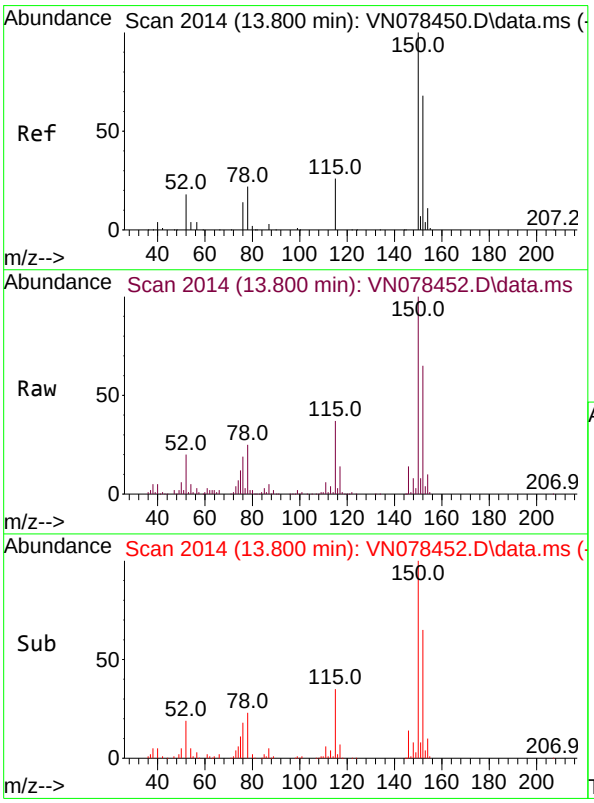
Ion	Ratio	Lower	Upper
173	100		
175	50.2	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

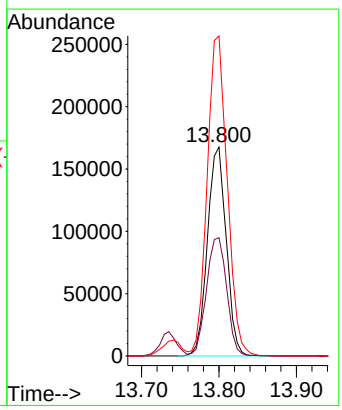
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

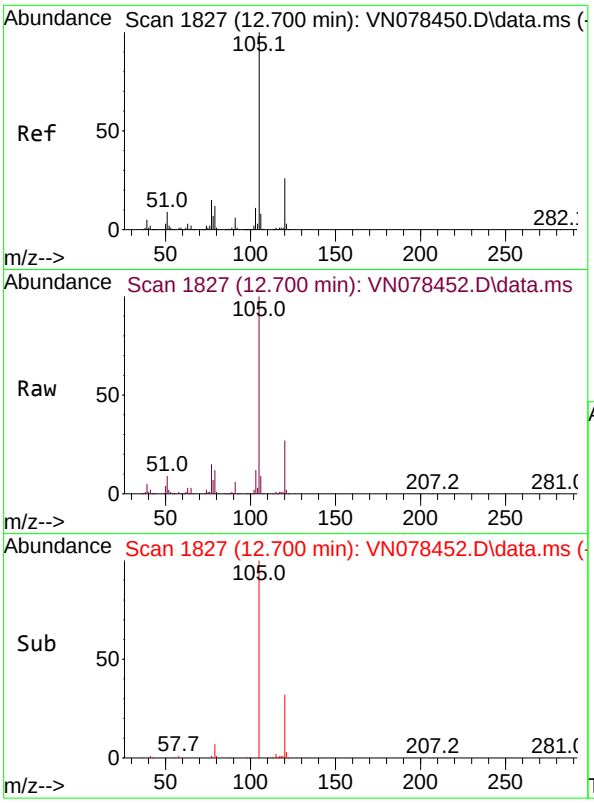


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:152 Resp: 282655

Ion	Ratio	Lower	Upper
152	100		
115	61.1	32.3	96.8
150	163.6	0.0	355.8

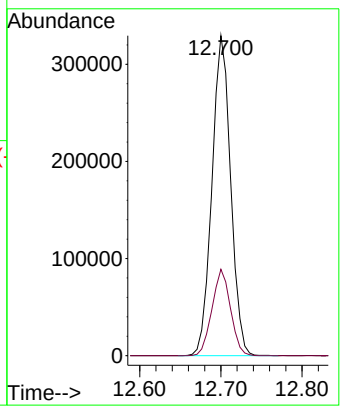




#73
Isopropylbenzene
Concen: 19.859 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:105 Resp: 52744

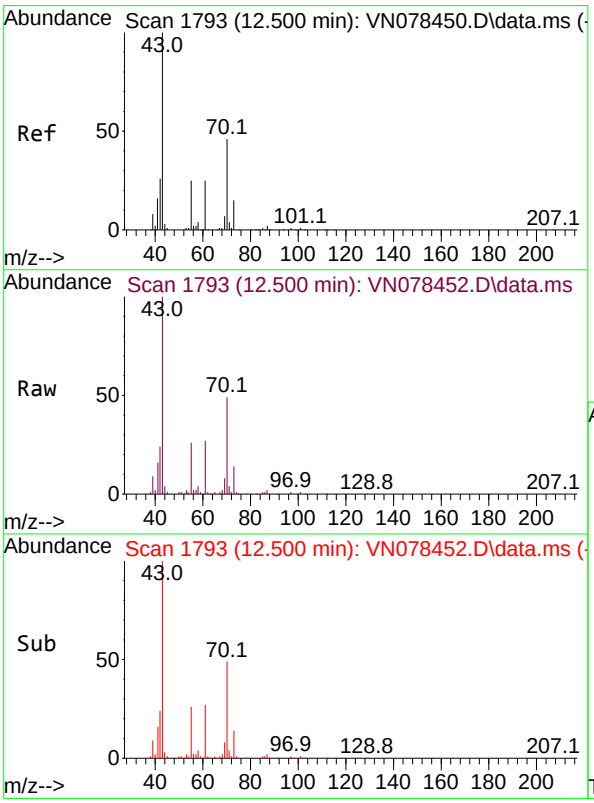
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

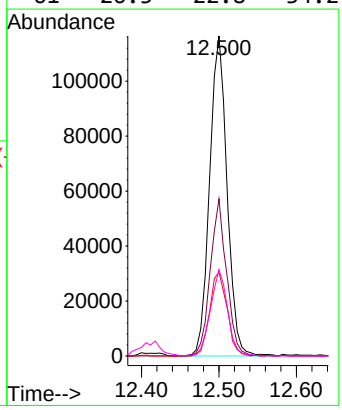
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

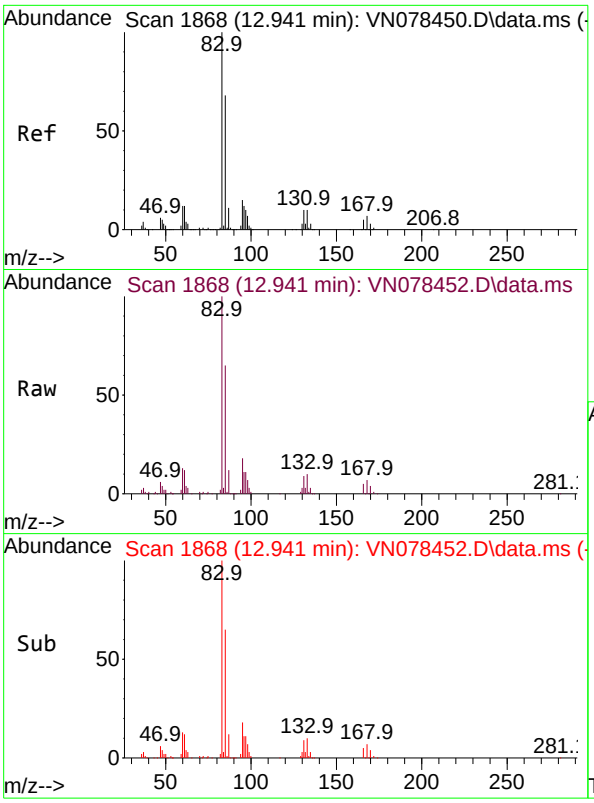


#74
N-amyl acetate
Concen: 19.895 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 43 Resp: 182096

Ion	Ratio	Lower	Upper
43	100		
70	45.9	43.4	65.2
55	26.3	21.4	32.0
61	26.3	22.8	34.2





#75
1,1,2,2-Tetrachloroethane
Concen: 21.039 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

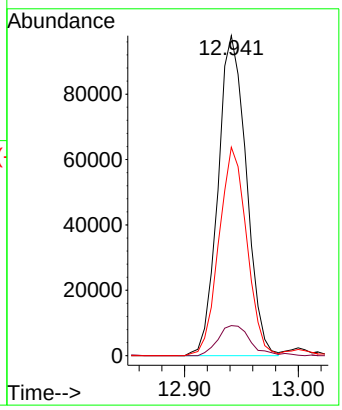
Tgt Ion: 83 Resp: 16938

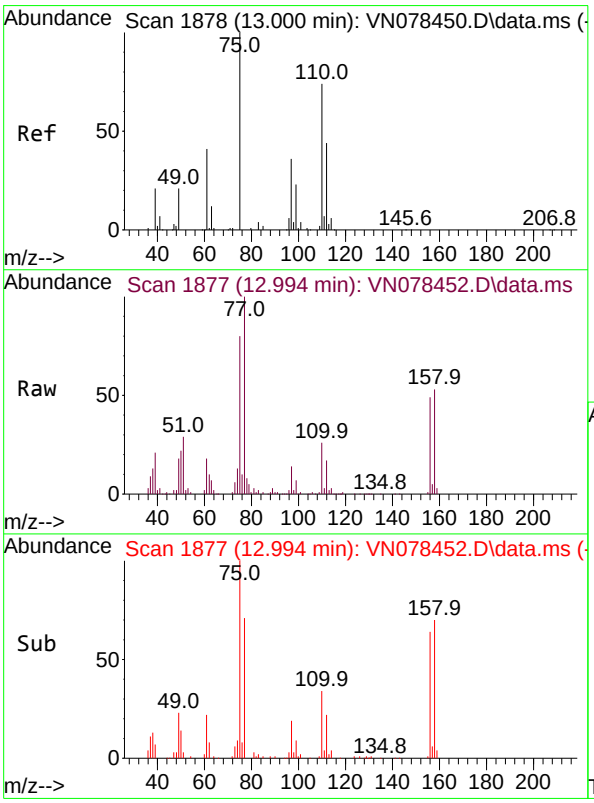
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.0	15.0
85	64.0	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

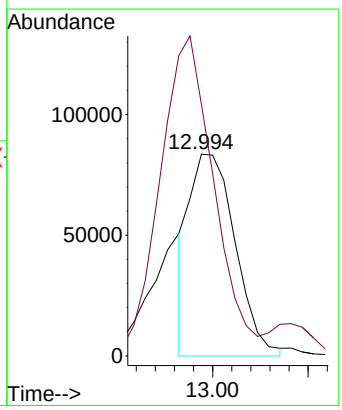


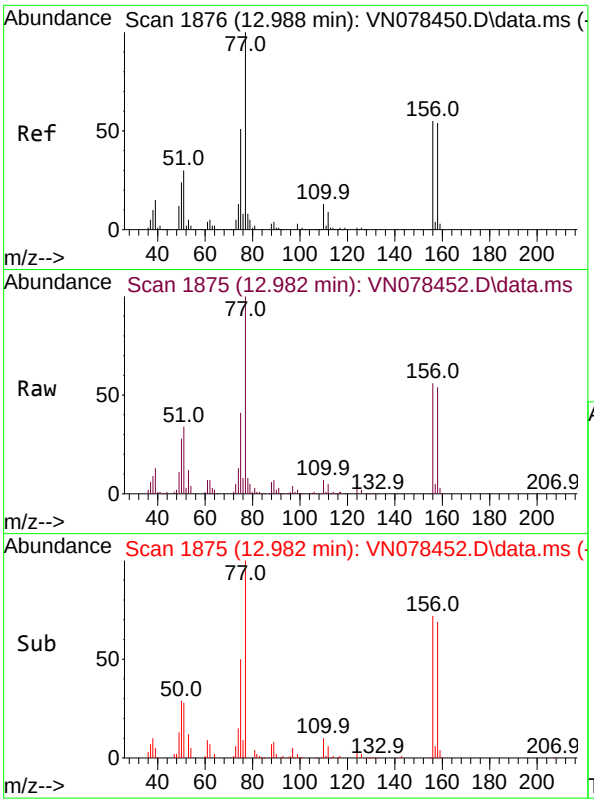


#76
1,2,3-Trichloropropane
Concen: 20.382 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 75 Resp: 139097

Ion	Ratio	Lower	Upper
75	100		
77	186.9	84.5	253.5

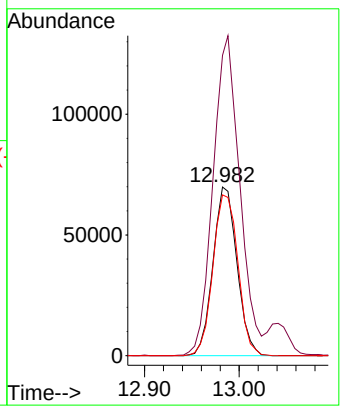




#77
Bromobenzene
Concen: 20.404 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:156 Resp: 12313

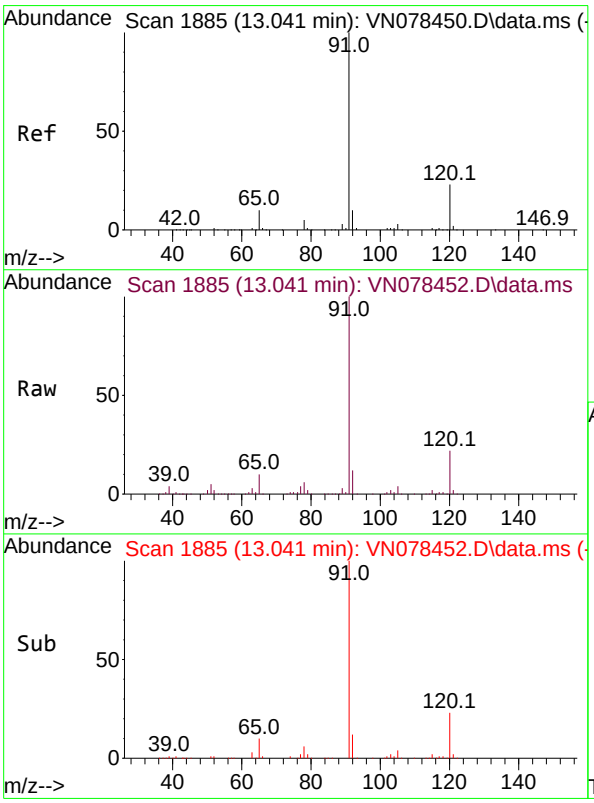
Ion	Ratio	Lower	Upper
156	100		
77	211.2	107.7	323.3
158	99.2	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

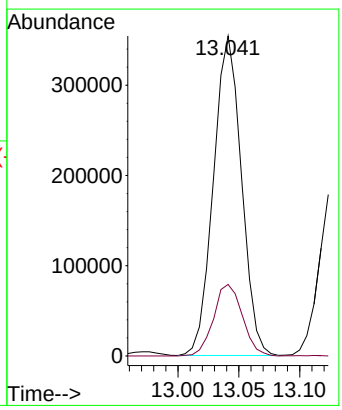
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

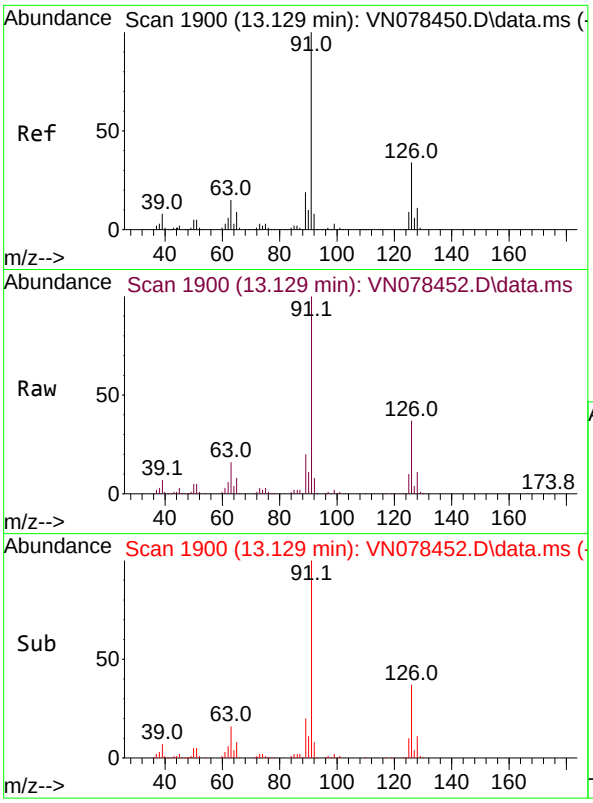


#78
n-propylbenzene
Concen: 19.970 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 91 Resp: 567216

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4

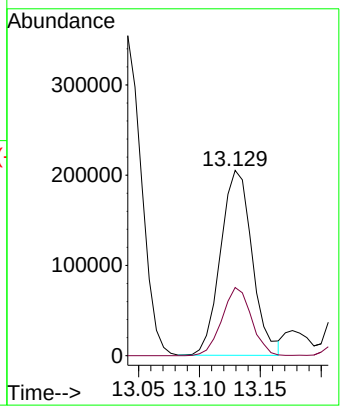




#79
2-Chlorotoluene
Concen: 19.951 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 91 Resp: 37119

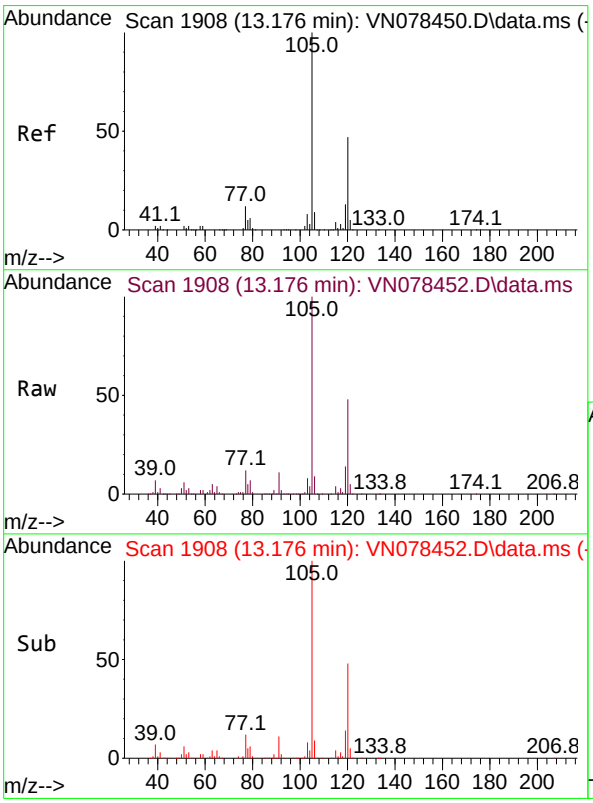
Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

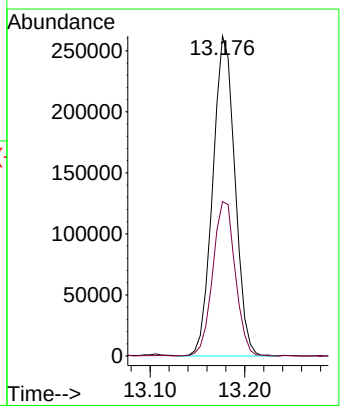
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

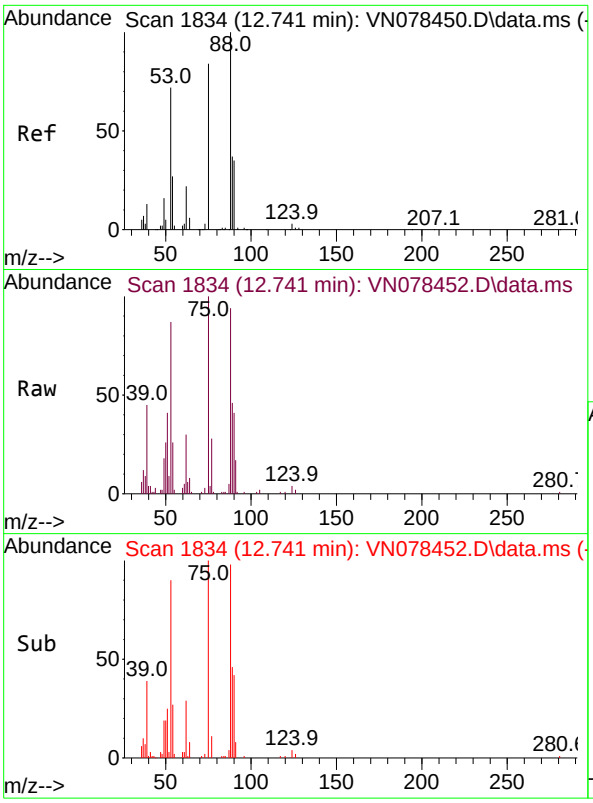


#80
1,3,5-Trimethylbenzene
Concen: 20.327 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:105 Resp: 426565

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.1	72.3

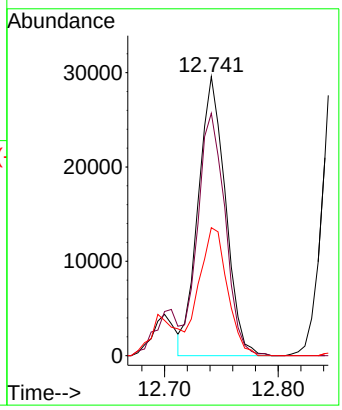




#81
trans-1,4-Dichloro-2-butene
Concen: 18.951 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 75 Resp: 4927

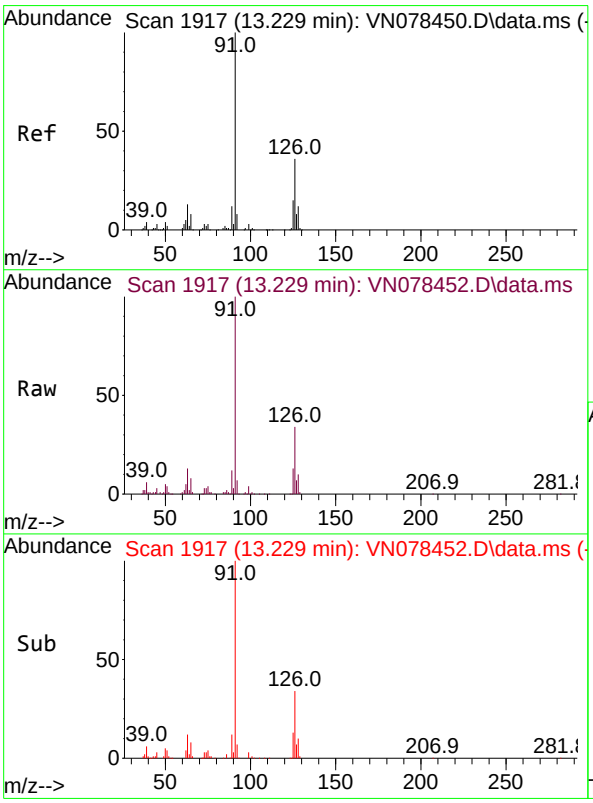
Ion	Ratio	Lower	Upper
75	100		
53	87.9	67.4	101.2
89	47.2	38.8	58.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

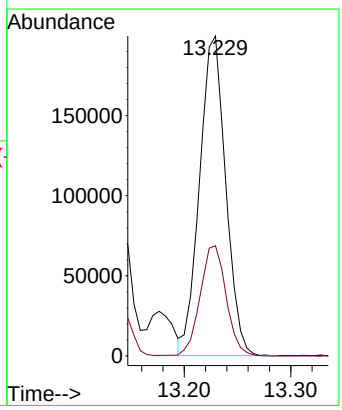
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

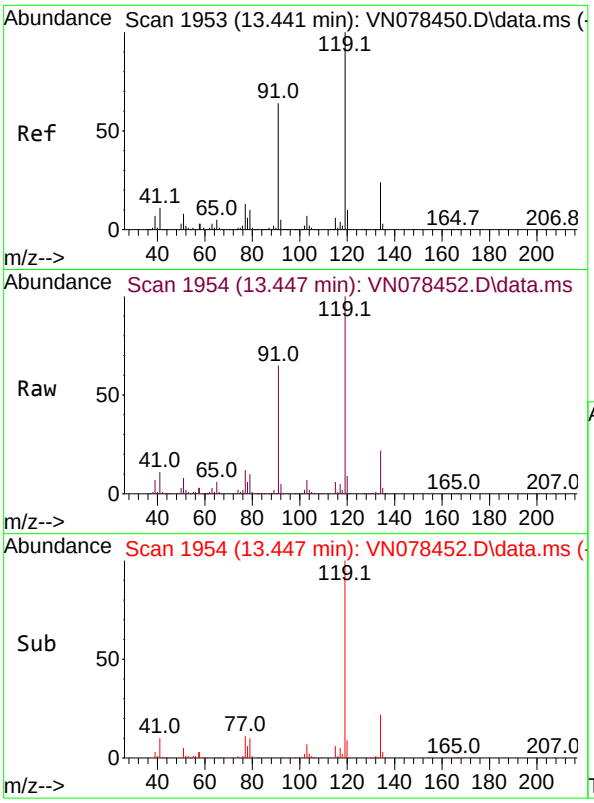


#82
4-Chlorotoluene
Concen: 19.607 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 91 Resp: 340292

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.0

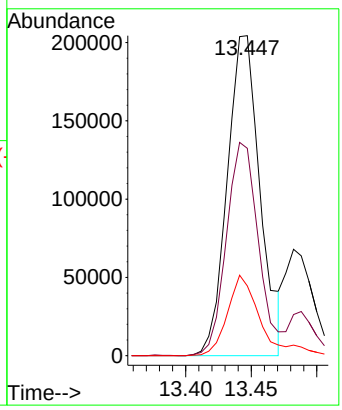




#83
tert-Butylbenzene
Concen: 20.048 ug/l
RT: 13.447 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:119 Resp: 35719

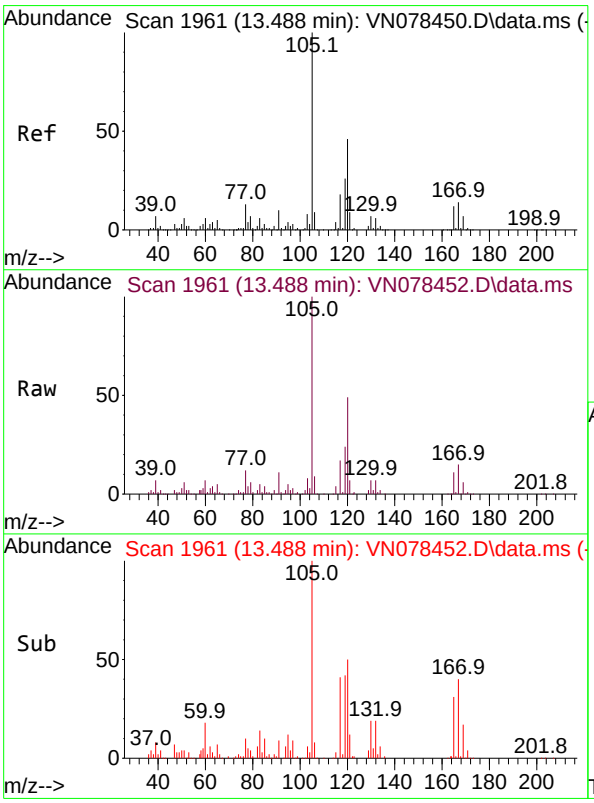
Ion	Ratio	Lower	Upper
119	100		
91	64.6	33.9	101.7
134	25.4	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

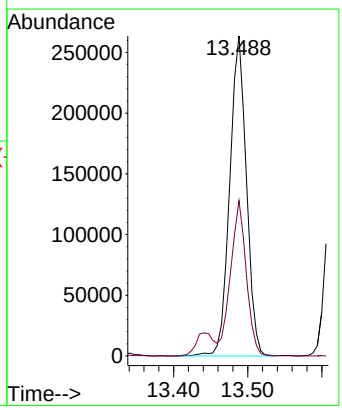
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

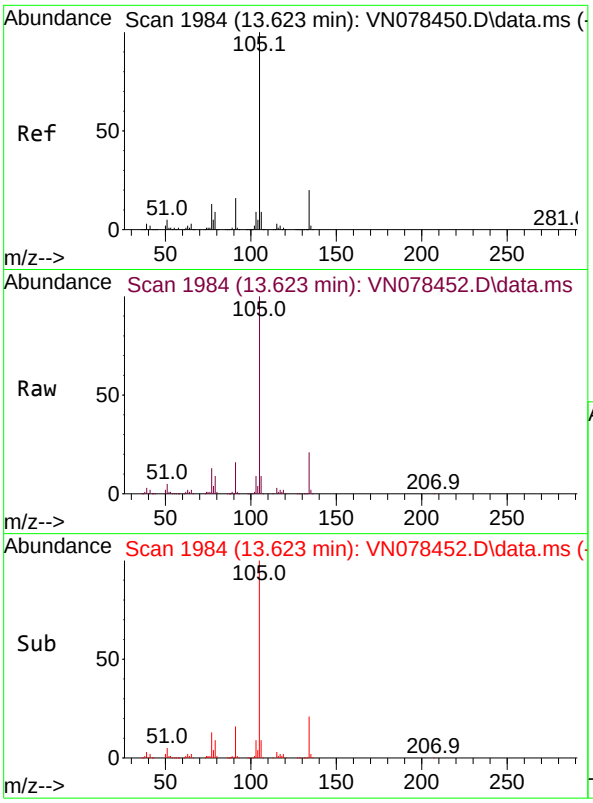


#84
1,2,4-Trimethylbenzene
Concen: 20.238 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:105 Resp: 412523

Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.0	66.0

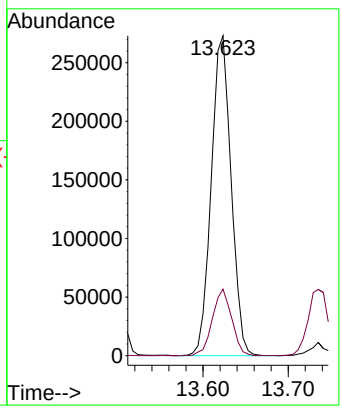




#85
sec-Butylbenzene
Concen: 19.696 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:105 Resp: 44355

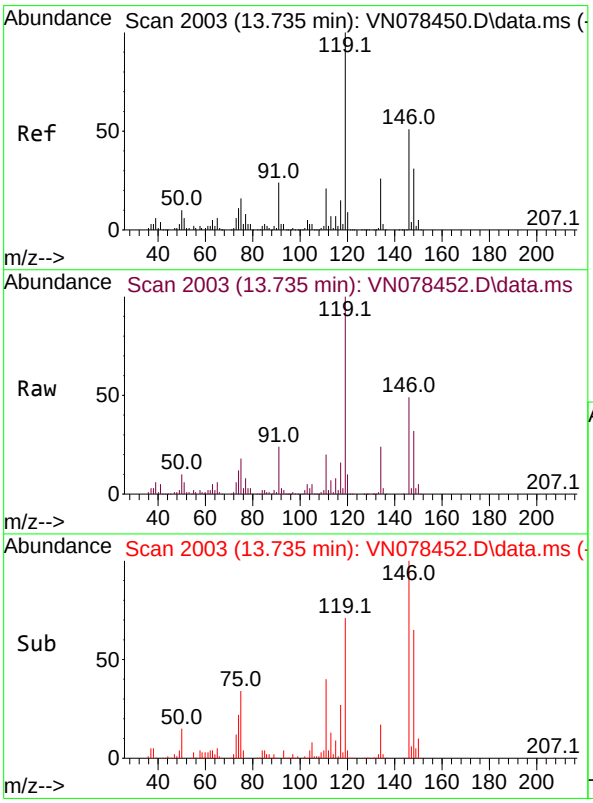
Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

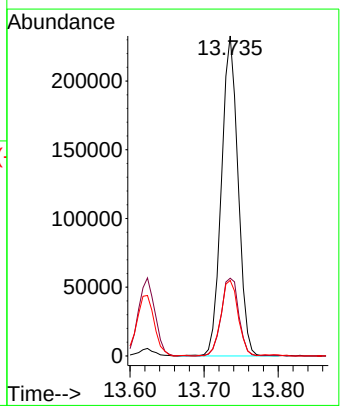
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

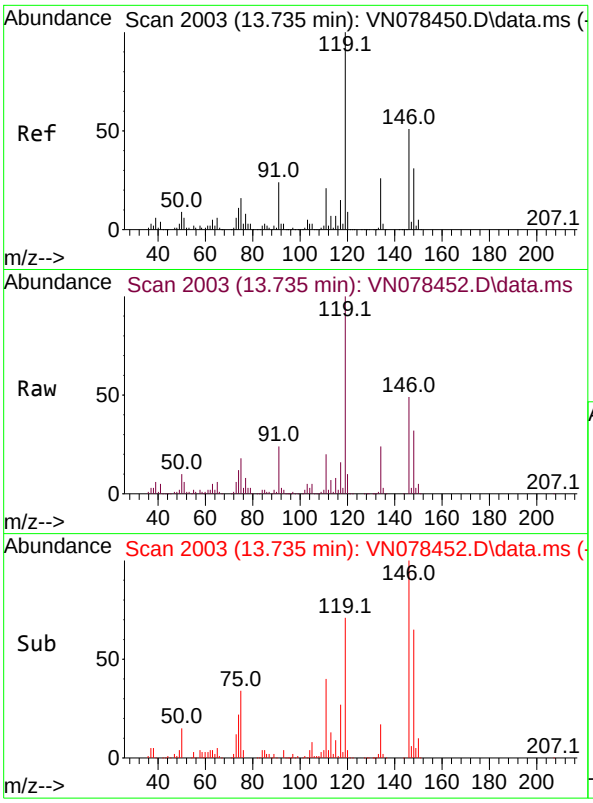


#86
p-Isopropyltoluene
Concen: 20.032 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:119 Resp: 362229

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	24.6	12.4	37.2

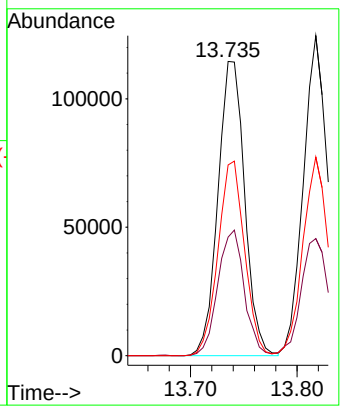




#87
1,3-Dichlorobenzene
Concen: 19.594 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:146 Resp: 19977

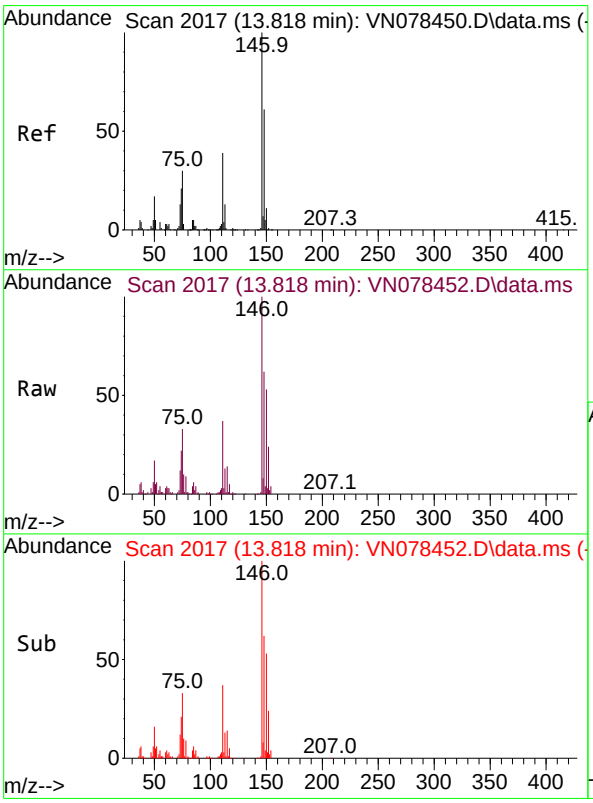
Ion	Ratio	Lower	Upper
146	100		
111	42.2	22.1	66.3
148	65.7	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

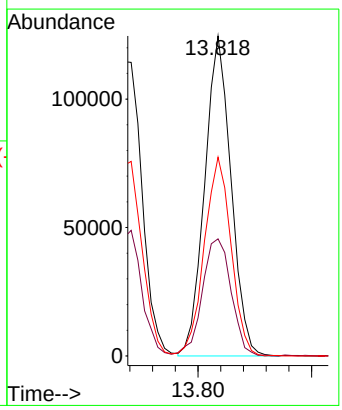
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

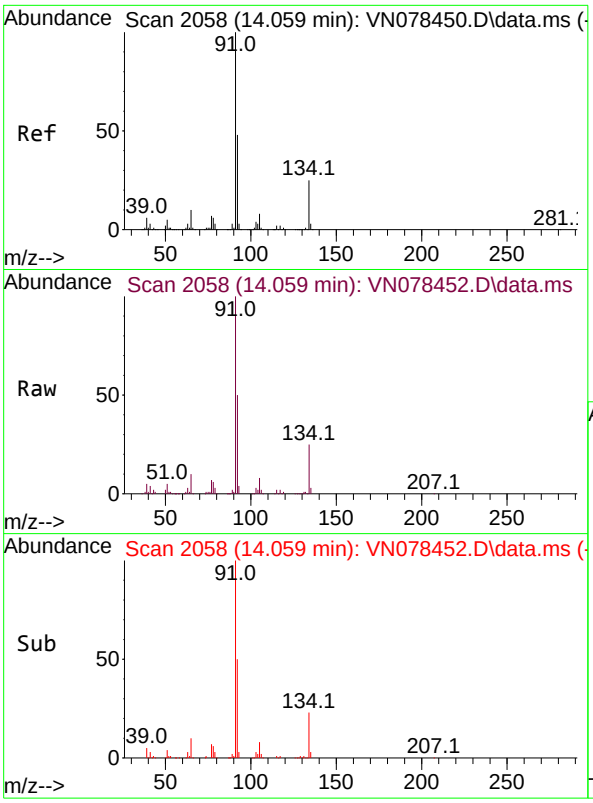


#88
1,4-Dichlorobenzene
Concen: 19.545 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:146 Resp: 200731

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.6	61.8
148	63.3	31.6	94.8

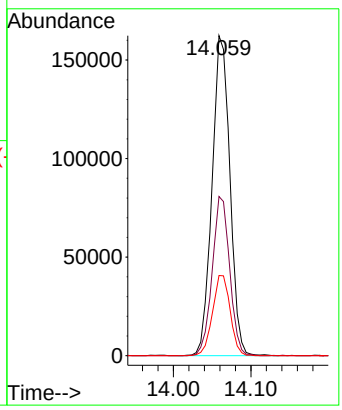




#89
n-Butylbenzene
Concen: 20.066 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 91 Resp: 25962

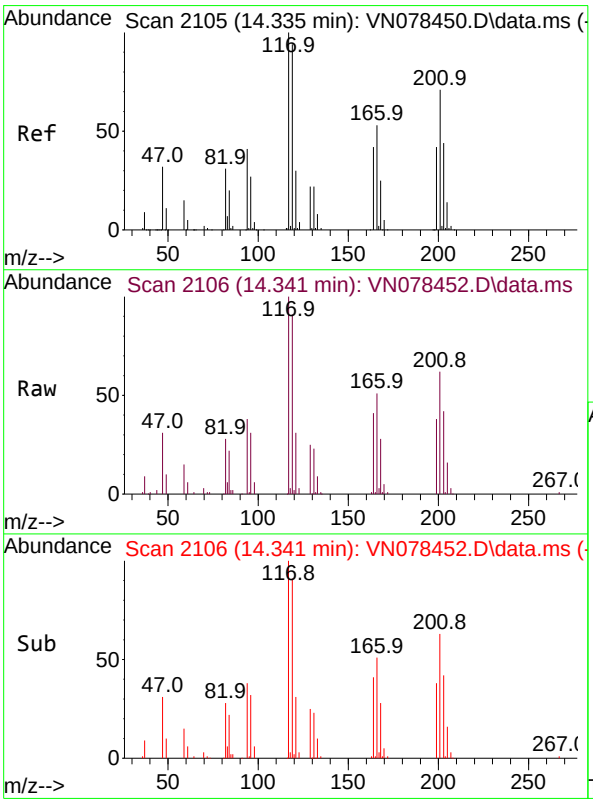
Ion	Ratio	Lower	Upper
91	100		
92	48.7	26.4	79.0
134	24.8	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

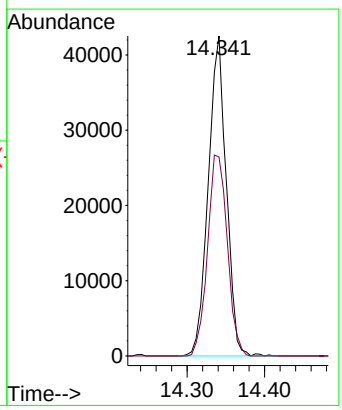
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

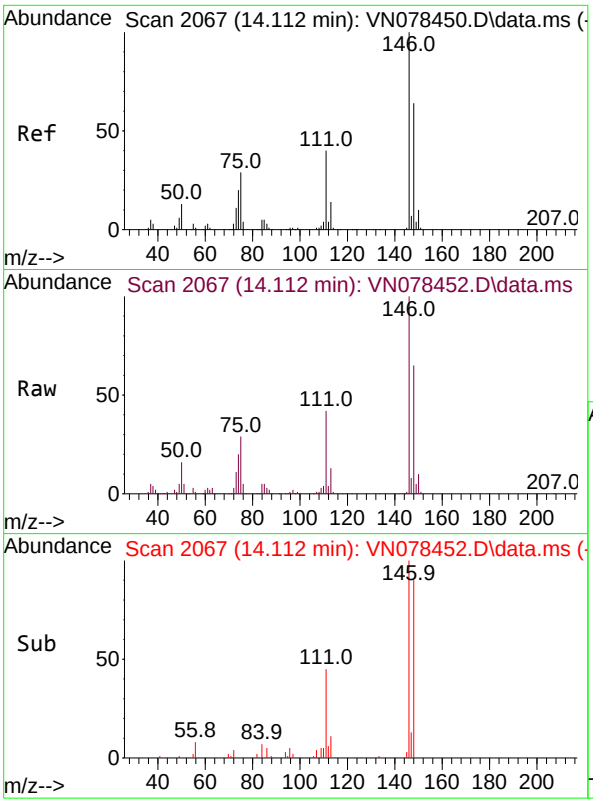


#90
Hexachloroethane
Concen: 20.140 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:117 Resp: 68556

Ion	Ratio	Lower	Upper
117	100		
201	69.0	29.3	88.0

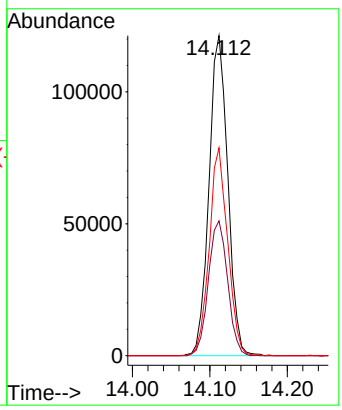




#91
1,2-Dichlorobenzene
Concen: 20.147 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:146 Resp: 20443

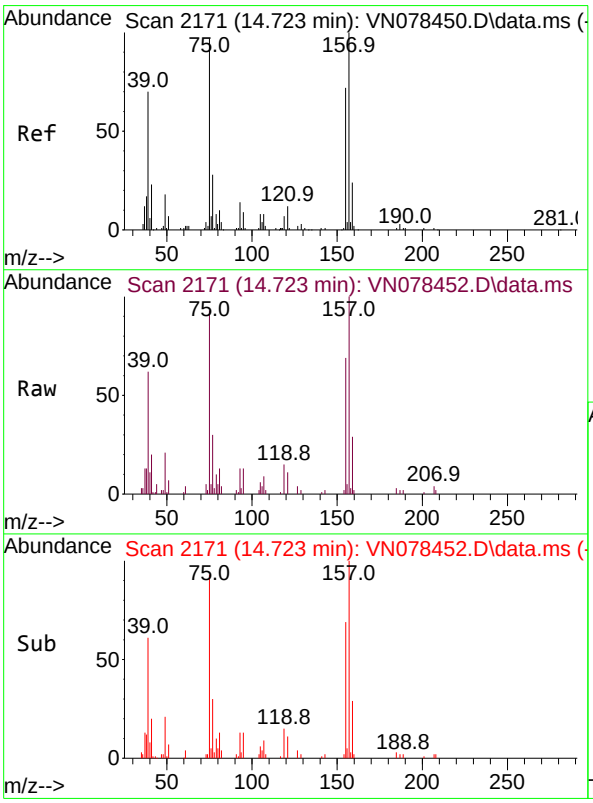
Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.0	66.0
148	63.8	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

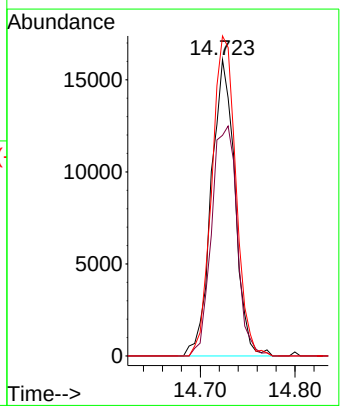
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

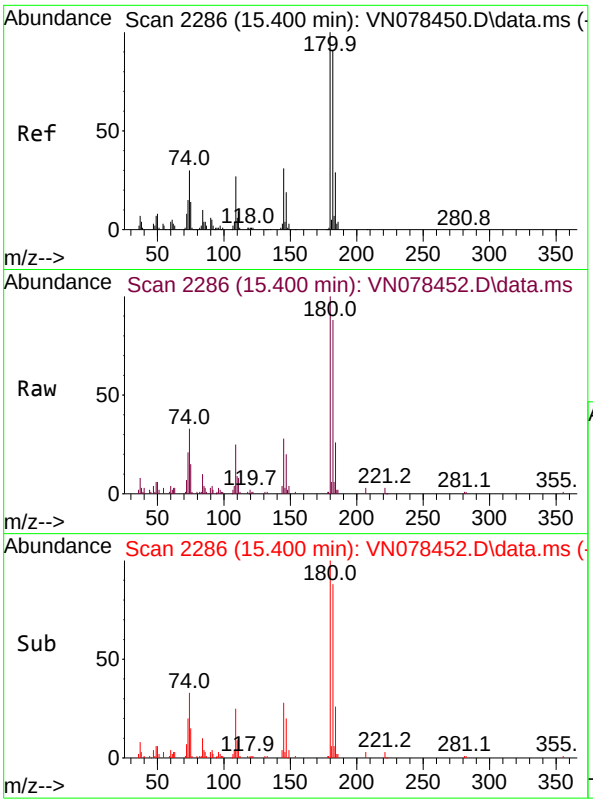


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.714 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion: 75 Resp: 27767

Ion	Ratio	Lower	Upper
75	100		
155	83.8	39.1	117.2
157	110.1	50.3	150.9

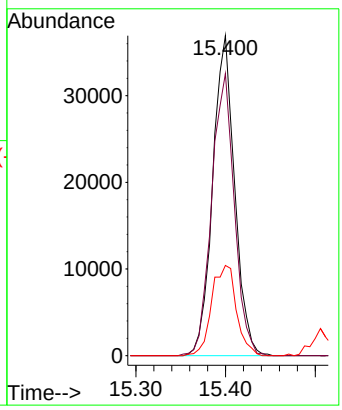




#93
1,2,4-Trichlorobenzene
Concen: 19.379 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:180 Resp: 6275

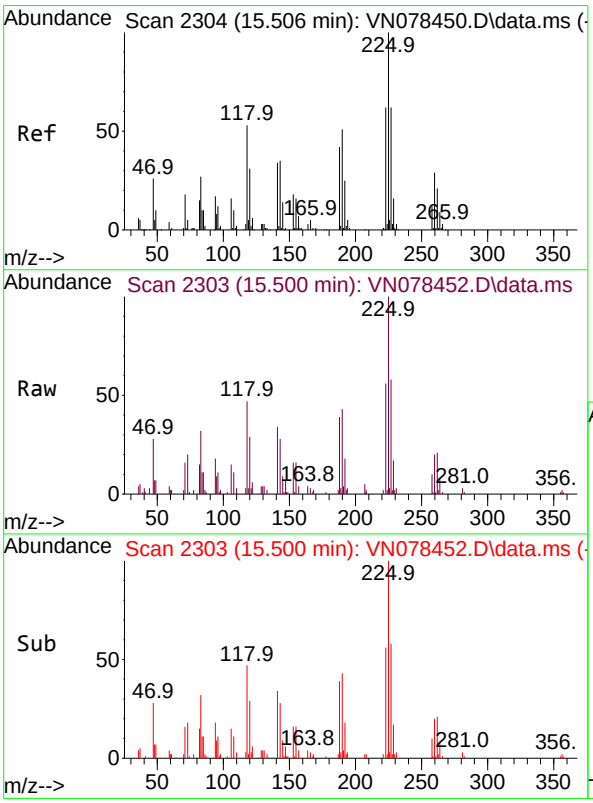
Ion	Ratio	Lower	Upper
180	100		
182	91.0	46.1	138.2
145	31.8	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

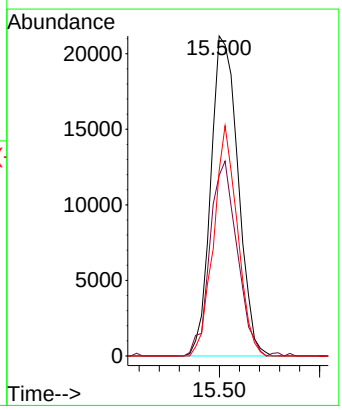
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

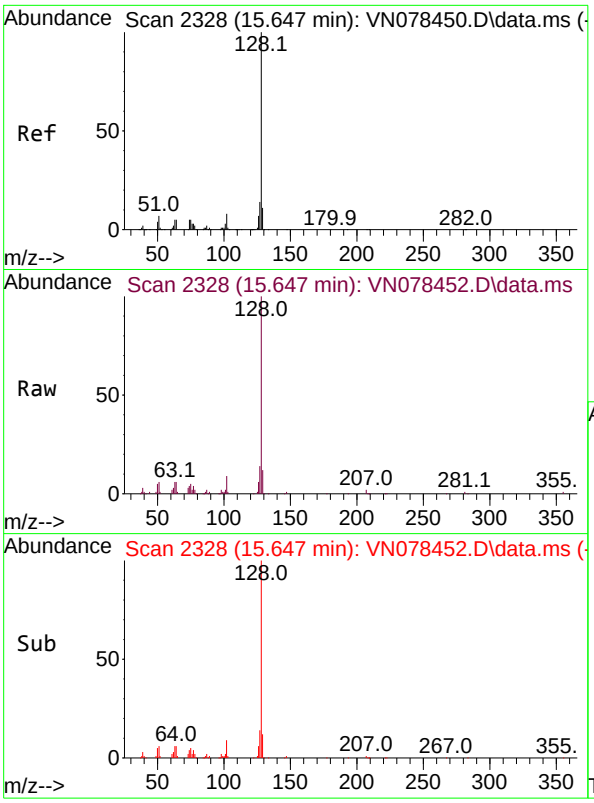


#94
Hexachlorobutadiene
Concen: 21.450 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.006 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:225 Resp: 39894

Ion	Ratio	Lower	Upper
225	100		
223	60.6	31.3	93.8
227	62.8	31.9	95.9

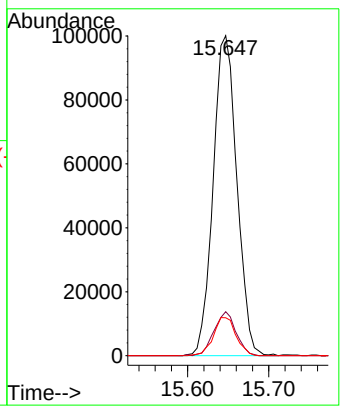




#95
Naphthalene
Concen: 18.379 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:128 Resp: 20347

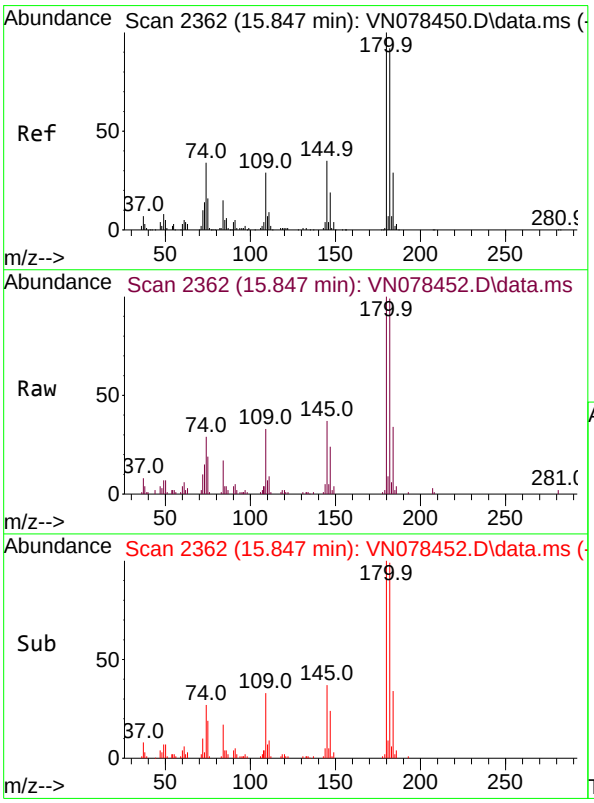
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.0	15.0
129	11.4	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

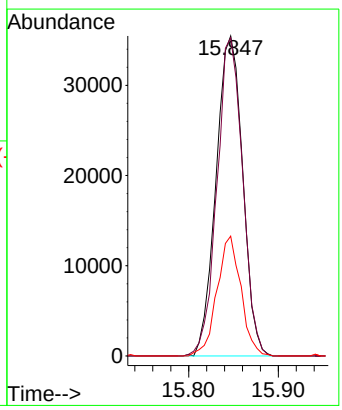
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 19.619 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078452.D
Acq: 10 Jul 2023 13:34

Tgt Ion:180 Resp: 73056

Ion	Ratio	Lower	Upper
180	100		
182	95.7	46.2	138.6
145	33.6	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078453.D
Acq On : 10 Jul 2023 13:58
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 15:59:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:58:12 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	482850	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	855204	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	716143	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	221100	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	34092	5.267	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.540%#		
35) Dibromofluoromethane	8.177	113	30055	5.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.360%#		
50) Toluene-d8	10.571	98	112288	5.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.240%#		
62) 4-Bromofluorobenzene	12.853	95	31442	4.654	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	9.300%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	33359	5.635	ug/l	92
3) Chloromethane	2.371	50	35383	5.499	ug/l	93
4) Vinyl Chloride	2.518	62	45218	5.432	ug/l	97
5) Bromomethane	2.942	94	38368	6.455	ug/l	96
6) Chloroethane	3.118	64	28585	3.906	ug/l	96
7) Trichlorofluoromethane	3.495	101	53518	5.379	ug/l	98
8) Diethyl Ether	3.971	74	16667	5.028	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.383	101	27884	5.294	ug/l #	20
10) Methyl Iodide	4.589	142	36267	5.011	ug/l	98
11) Tert butyl alcohol	5.547	59	27341	27.391	ug/l #	85
12) 1,1-Dichloroethene	4.342	96	27368	5.372	ug/l	85
13) Acrolein	4.189	56	26119	26.596	ug/l	97
14) Allyl chloride	5.030	41	35895	5.156	ug/l	95
15) Acrylonitrile	5.730	53	65649	26.030	ug/l	99
16) Acetone	4.447	43	54025	26.793	ug/l #	86
17) Carbon Disulfide	4.718	76	77971	5.292	ug/l	99
18) Methyl Acetate	5.042	43	45027	5.275	ug/l	92
19) Methyl tert-butyl Ether	5.812	73	85988	5.122	ug/l	96
20) Methylene Chloride	5.294	84	32630	5.137	ug/l	93
21) trans-1,2-Dichloroethene	5.789	96	30448	5.303	ug/l	87
22) Diisopropyl ether	6.677	45	79756	5.116	ug/l	95
23) Vinyl Acetate	6.618	43	246885	24.912	ug/l #	91
24) 1,1-Dichloroethane	6.571	63	55830	5.315	ug/l	96
25) 2-Butanone	7.500	43	79408	25.018	ug/l #	87
26) 2,2-Dichloropropane	7.488	77	44289	5.155	ug/l	100
27) cis-1,2-Dichloroethene	7.494	96	34321	5.167	ug/l	95
28) Bromochloromethane	7.824	49	23758	4.802	ug/l	99
29) Tetrahydrofuran	7.853	42	52700	25.304	ug/l	85
30) Chloroform	7.971	83	55875	5.109	ug/l	100
31) Cyclohexane	8.259	56	53935	6.165	ug/l #	83
32) 1,1,1-Trichloroethane	8.177	97	51084	5.210	ug/l	92
36) 1,1-Dichloropropene	8.382	75	41253	4.921	ug/l	96
37) Ethyl Acetate	7.571	43	33596	4.808	ug/l #	91
38) Carbon Tetrachloride	8.371	117	44321	4.865	ug/l #	90
39) Methylcyclohexane	9.606	83	36208	4.732	ug/l #	85
40) Benzene	8.612	78	123988	4.993	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078453.D
Acq On : 10 Jul 2023 13:58
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 15:59:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:58:12 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.794	41	19568	5.493	ug/l		89
42) 1,2-Dichloroethane	8.682	62	42498	5.031	ug/l		99
43) Isopropyl Acetate	8.700	43	60389	5.249	ug/l		97
44) Trichloroethene	9.359	130	31928	4.770	ug/l		96
45) 1,2-Dichloropropane	9.629	63	31348	4.984	ug/l		98
46) Dibromomethane	9.718	93	22501	5.083	ug/l		94
47) Bromodichloromethane	9.894	83	42984	4.844	ug/l		95
48) Methyl methacrylate	9.688	41	26441	4.961	ug/l		89
49) 1,4-Dioxane	9.700	88	10769	92.648	ug/l		94
51) 4-Methyl-2-Pentanone	10.447	43	165871	24.240	ug/l		91
52) Toluene	10.635	92	74304	4.828	ug/l		92
53) t-1,3-Dichloropropene	10.841	75	43858	4.824	ug/l		98
54) cis-1,3-Dichloropropene	10.318	75	47081	4.858	ug/l		94
55) 1,1,2-Trichloroethane	11.018	97	29781	4.911	ug/l		88
56) Ethyl methacrylate	10.876	69	37681	4.445	ug/l	#	90
57) 1,3-Dichloropropane	11.165	76	50927	4.939	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	75642	25.039	ug/l		91
59) 2-Hexanone	11.200	43	120539	24.785	ug/l		87
60) Dibromochloromethane	11.365	129	32246	4.817	ug/l		99
61) 1,2-Dibromoethane	11.476	107	31487	5.040	ug/l		96
64) Tetrachloroethene	11.106	164	27995	5.200	ug/l		92
65) Chlorobenzene	11.894	112	81538	5.094	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.965	131	30954	5.027	ug/l		97
67) Ethyl Benzene	11.970	91	133219	4.923	ug/l		100
68) m/p-Xylenes	12.076	106	100821	10.078	ug/l		97
69) o-Xylene	12.400	106	49105	4.860	ug/l		99
70) Styrene	12.418	104	75656	4.786	ug/l		98
71) Bromoform	12.582	173	21282	5.103	ug/l	#	96
73) Isopropylbenzene	12.700	105	121156	5.832	ug/l		99
74) N-amyl acetate	12.500	43	42438	5.927	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	12.941	83	41037	4.237	ug/l		96
76) 1,2,3-Trichloropropane	13.000	75	33547m	6.284	ug/l		
77) Bromobenzene	12.982	156	28118	4.828	ug/l		99
78) n-propylbenzene	13.041	91	122199	5.500	ug/l		96
79) 2-Chlorotoluene	13.129	91	78431	5.389	ug/l		97
80) 1,3,5-Trimethylbenzene	13.176	105	91188	5.555	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	12787	6.287	ug/l	#	93
82) 4-Chlorotoluene	13.223	91	77772	5.729	ug/l		97
83) tert-Butylbenzene	13.441	119	80039	5.743	ug/l		97
84) 1,2,4-Trimethylbenzene	13.488	105	89931	5.640	ug/l		98
85) sec-Butylbenzene	13.623	105	102011	5.791	ug/l		99
86) p-Isopropyltoluene	13.735	119	78812	5.572	ug/l		98
87) 1,3-Dichlorobenzene	13.741	146	43504	5.455	ug/l		96
88) 1,4-Dichlorobenzene	13.817	146	42873	5.337	ug/l		94
89) n-Butylbenzene	14.059	91	56482	5.581	ug/l		97
90) Hexachloroethane	14.341	117	16493	5.620	ug/l		92
91) 1,2-Dichlorobenzene	14.112	146	43882	5.529	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.717	75	6125	4.407	ug/l		91
93) 1,2,4-Trichlorobenzene	15.400	180	11329	4.472	ug/l		94
94) Hexachlorobutadiene	15.511	225	10864	4.526	ug/l		97
95) Naphthalene	15.647	128	39443	4.555	ug/l		96
96) 1,2,3-Trichlorobenzene	15.847	180	13854	4.756	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078453.D
Acq On : 10 Jul 2023 13:58
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 15:59:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:58:12 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

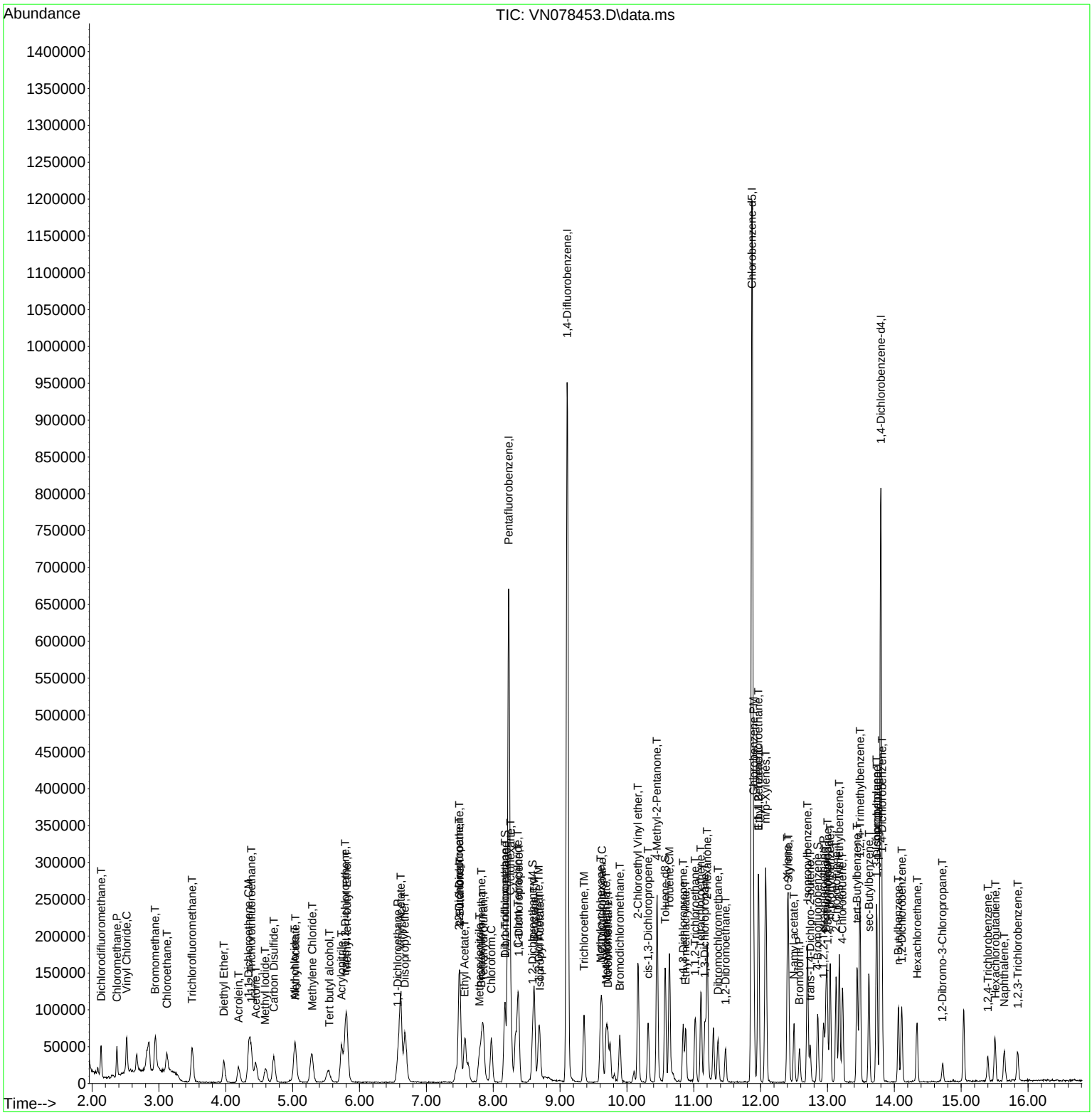
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Acq On : 10 Jul 2023 13:58
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

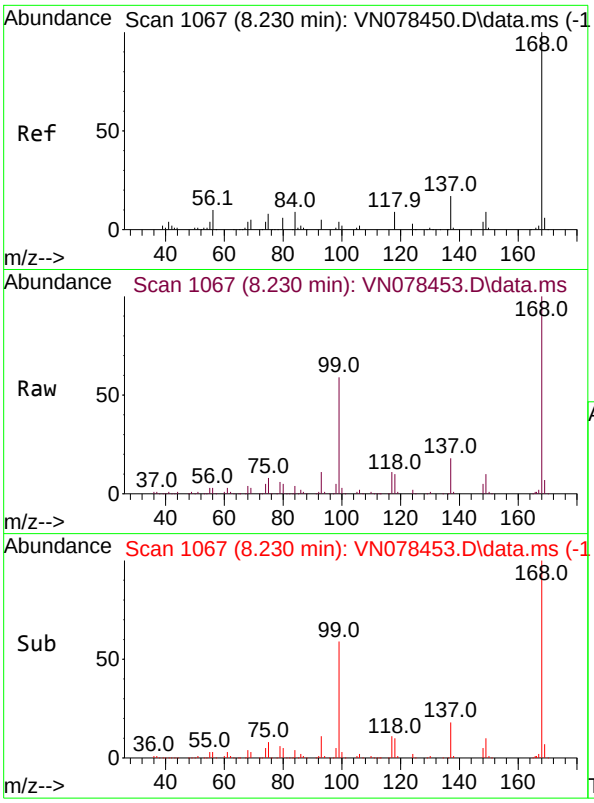
Quant Time: Jul 10 15:59:00 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 15:58:12 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

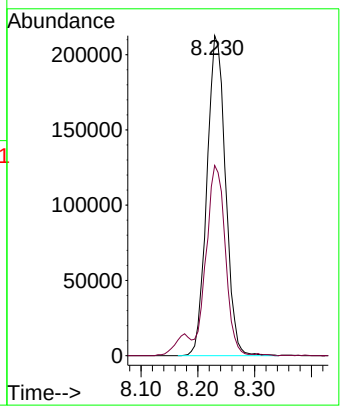




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:168 Resp: 48285

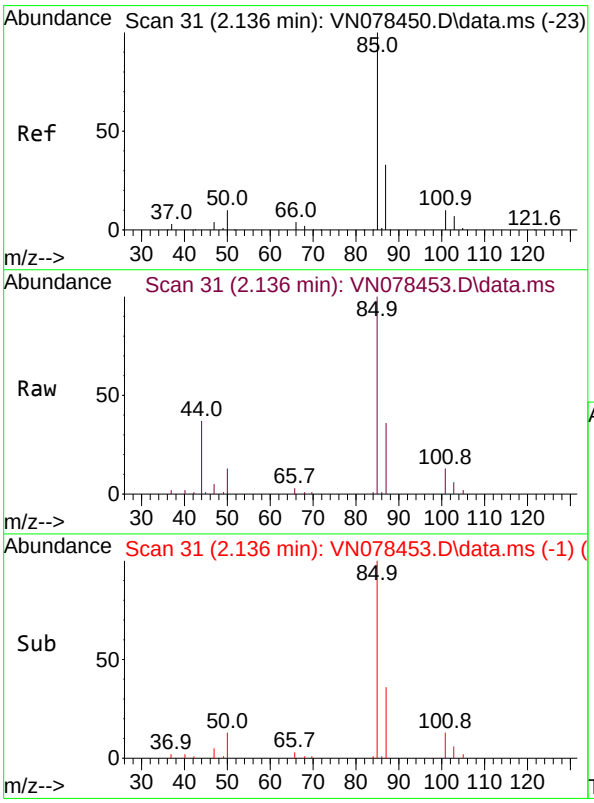
Ion	Ratio	Lower	Upper
168	100		
99	59.5	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

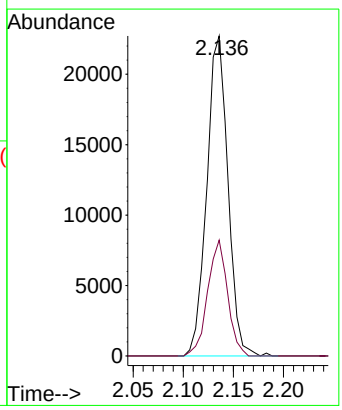
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

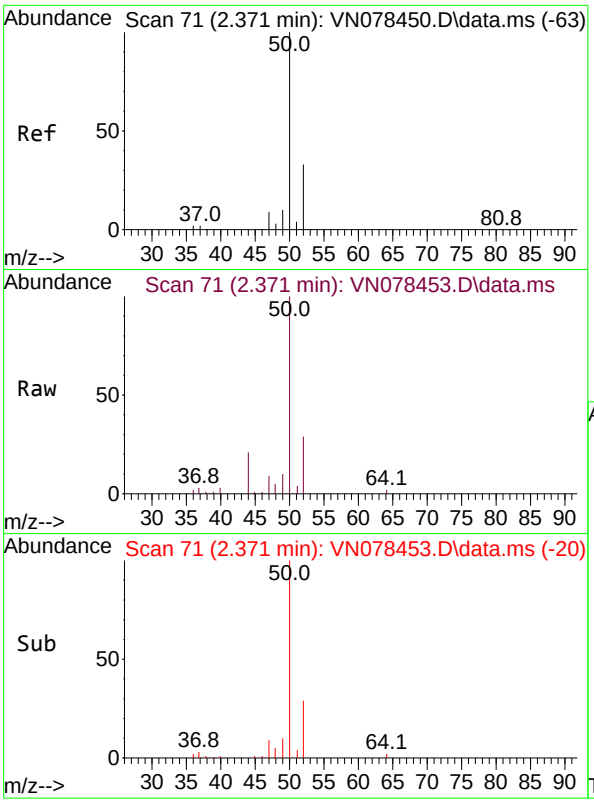


#2
Dichlorodifluoromethane
Concen: 5.635 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 85 Resp: 33359

Ion	Ratio	Lower	Upper
85	100		
87	36.2	15.8	47.4

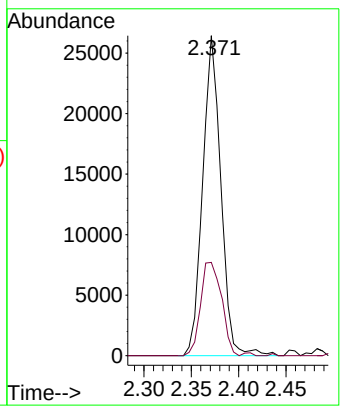




#3
Chloromethane
Concen: 5.499 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 50 Resp: 3538

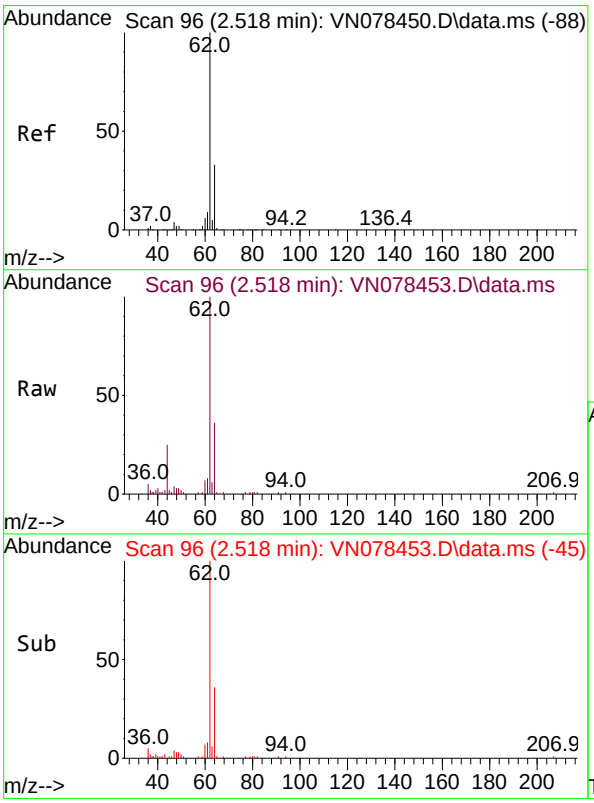
Ion	Ratio	Lower	Upper
50	100		
52	29.1	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

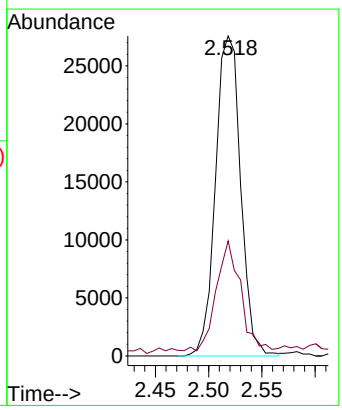
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

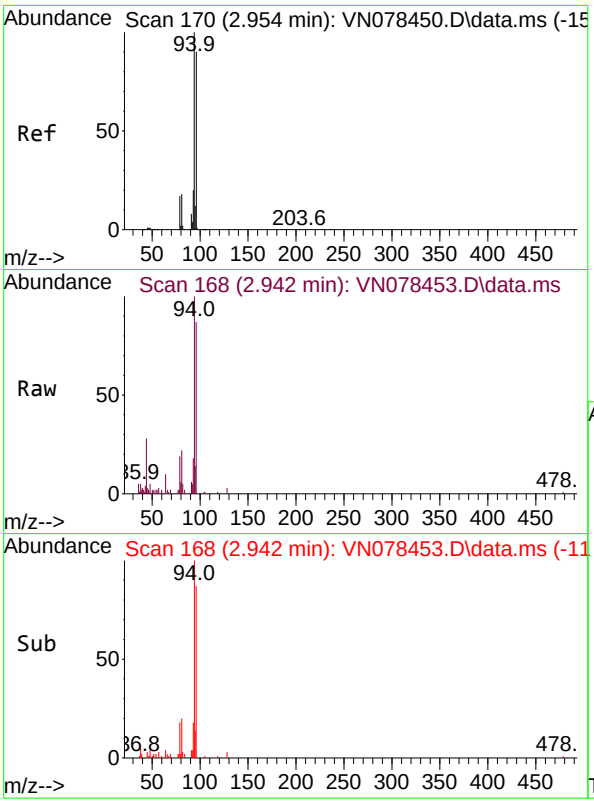


#4
Vinyl Chloride
Concen: 5.432 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 62 Resp: 45218

Ion	Ratio	Lower	Upper
62	100		
64	34.2	26.2	39.2

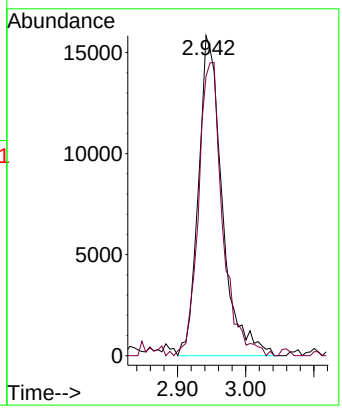




#5
Bromomethane
Concen: 6.455 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 94 Resp: 3836

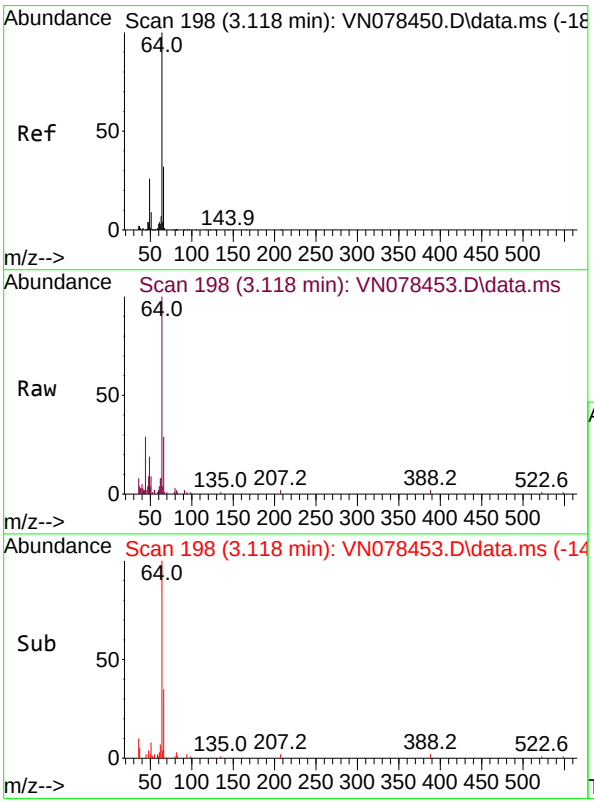
Ion	Ratio	Lower	Upper
94	100		
96	87.3	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

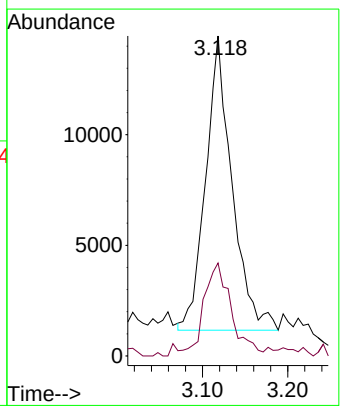
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

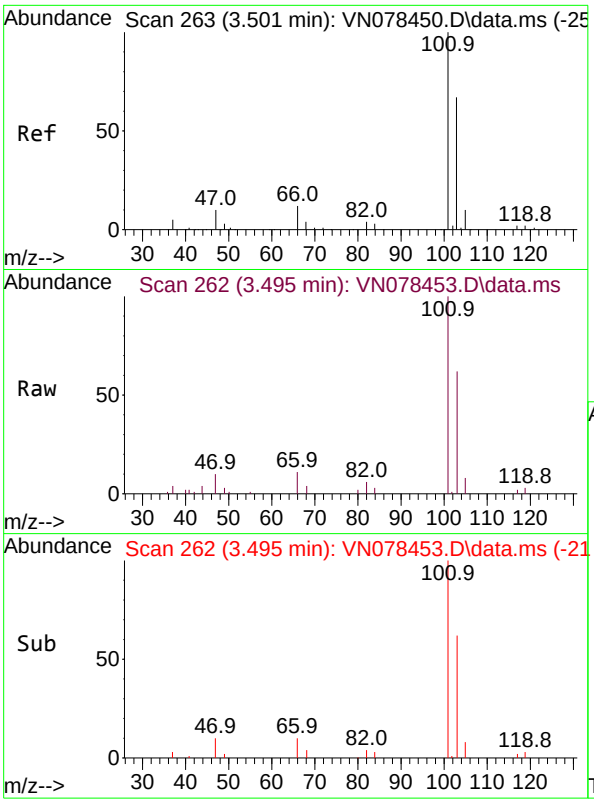


#6
Chloroethane
Concen: 3.906 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 64 Resp: 28585

Ion	Ratio	Lower	Upper
64	100		
66	29.8	25.4	38.2





#7
Trichlorofluoromethane
Concen: 5.379 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

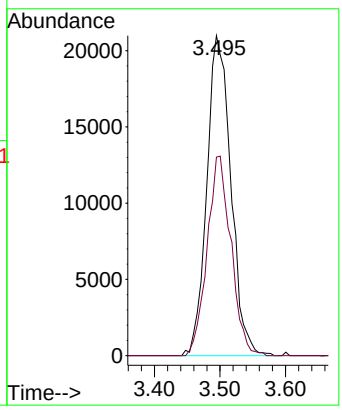
Tgt Ion:101 Resp: 5351

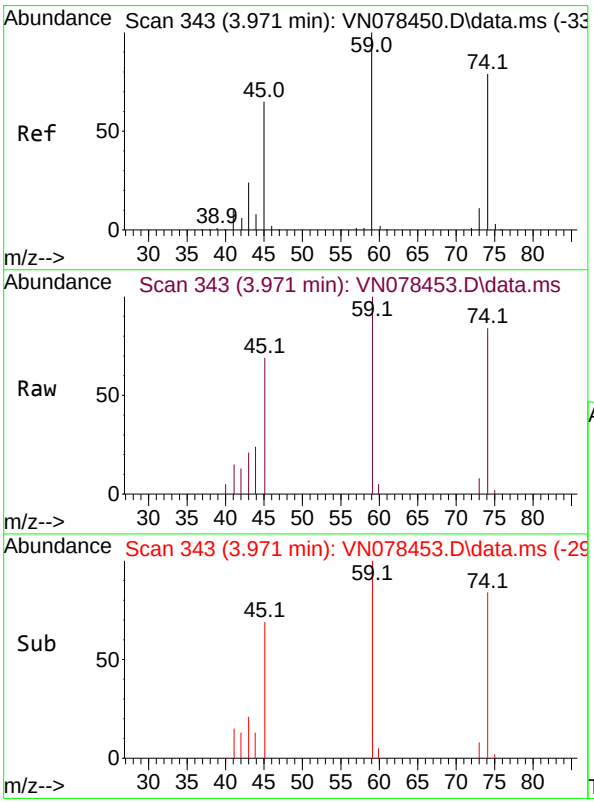
Ion	Ratio	Lower	Upper
101	100		
103	62.1	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

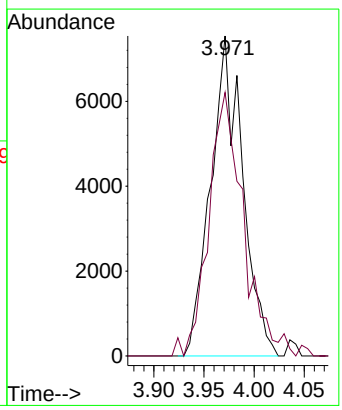


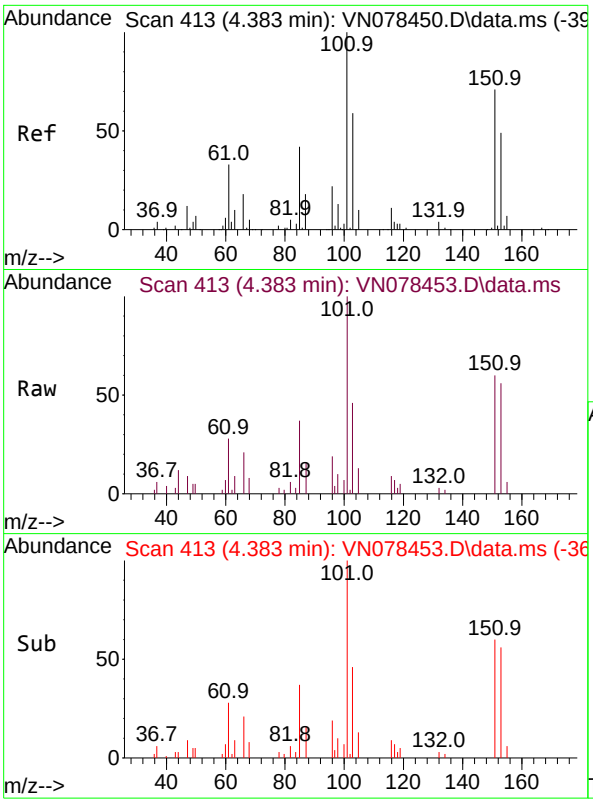


#8
Diethyl Ether
Concen: 5.028 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 74 Resp: 16667

Ion	Ratio	Lower	Upper
74	100		
45	89.5	34.4	103.3

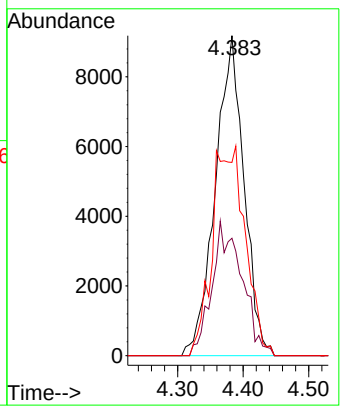




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.294 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:101 Resp: 2788

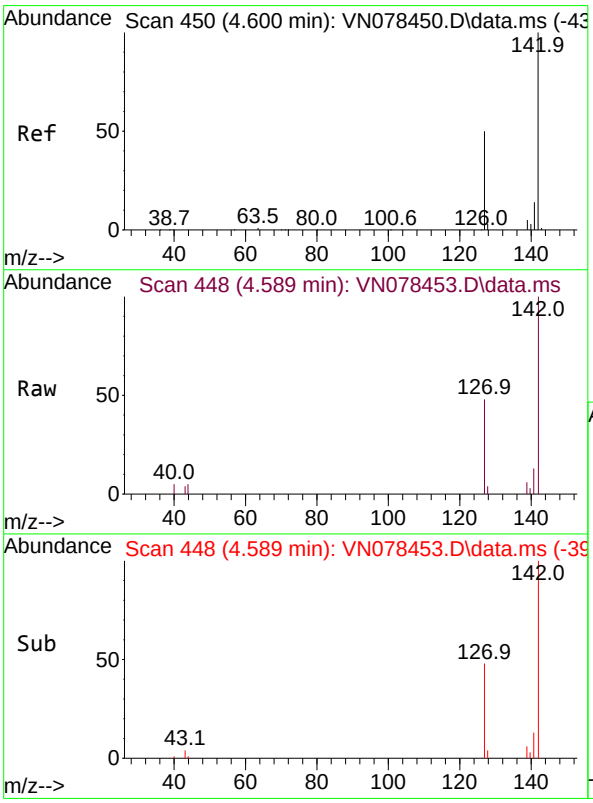
Ion	Ratio	Lower	Upper
101	100		
85	0.0	36.6	55.0#
151	0.0	57.6	86.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

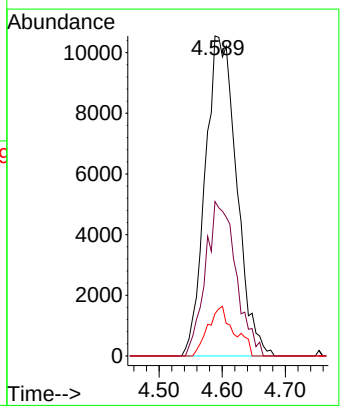
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

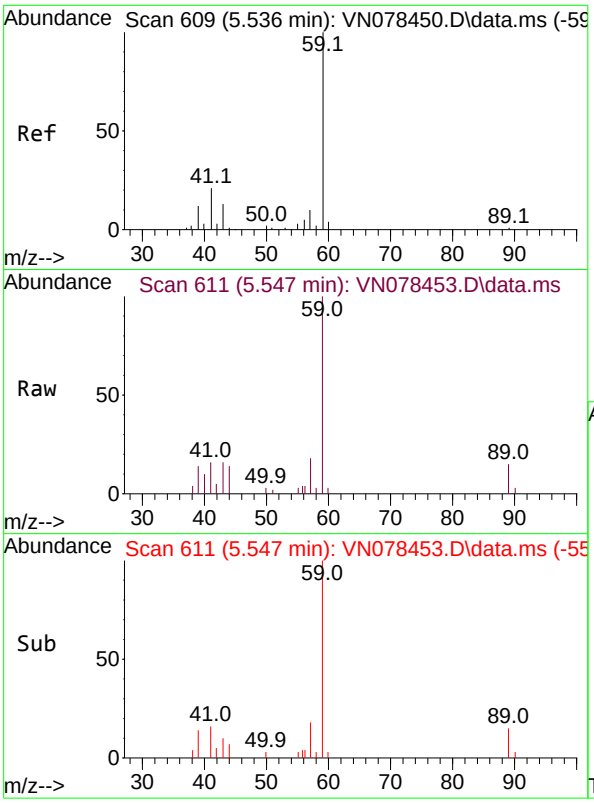


#10
Methyl Iodide
Concen: 5.011 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.011 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:142 Resp: 36267

Ion	Ratio	Lower	Upper
142	100		
127	48.2	37.6	56.4
141	13.3	11.4	17.0

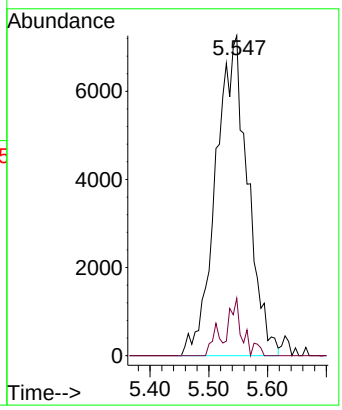




#11
Tert butyl alcohol
Concen: 27.391 ug/l
RT: 5.547 min Scan# 61
Delta R.T. 0.011 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 59 Resp: 2734

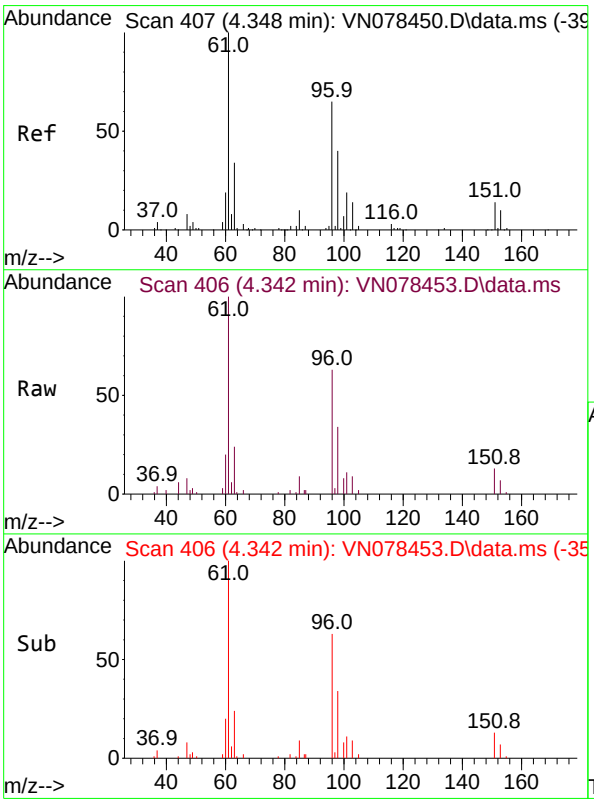
Ion	Ratio	Lower	Upper
59	100		
57	4.8	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

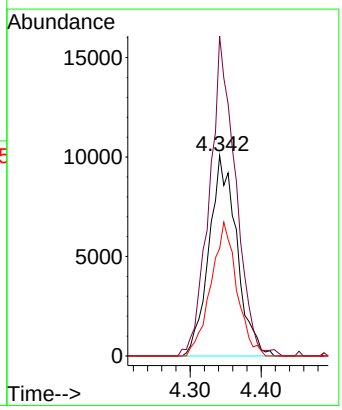
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

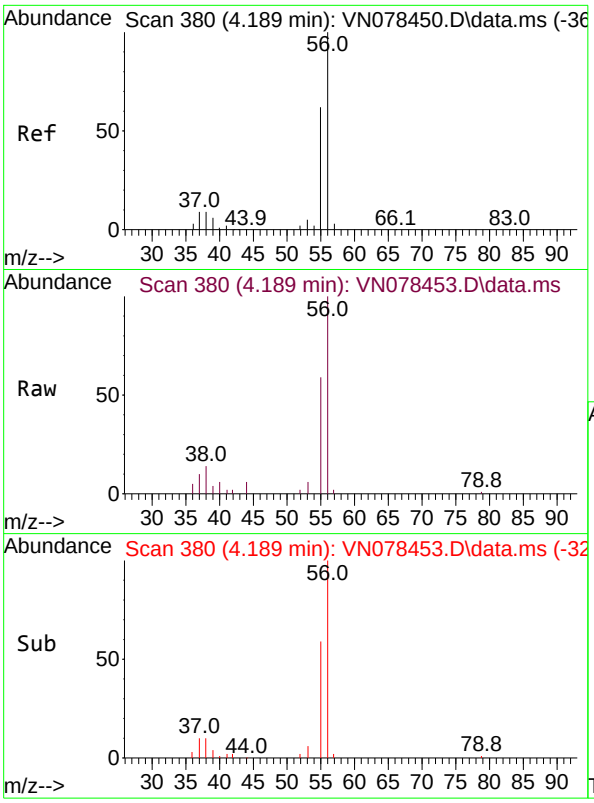


#12
1,1-Dichloroethene
Concen: 5.372 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 96 Resp: 27368

Ion	Ratio	Lower	Upper
96	100		
61	159.7	112.7	169.1
98	53.6	51.2	76.8

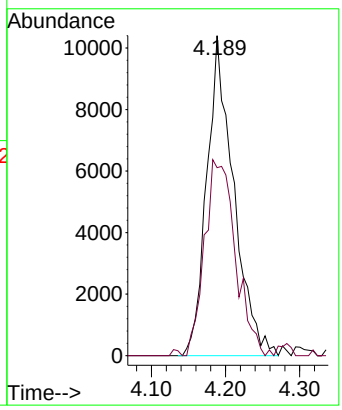




#13
Acrolein
Concen: 26.596 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 56 Resp: 2611

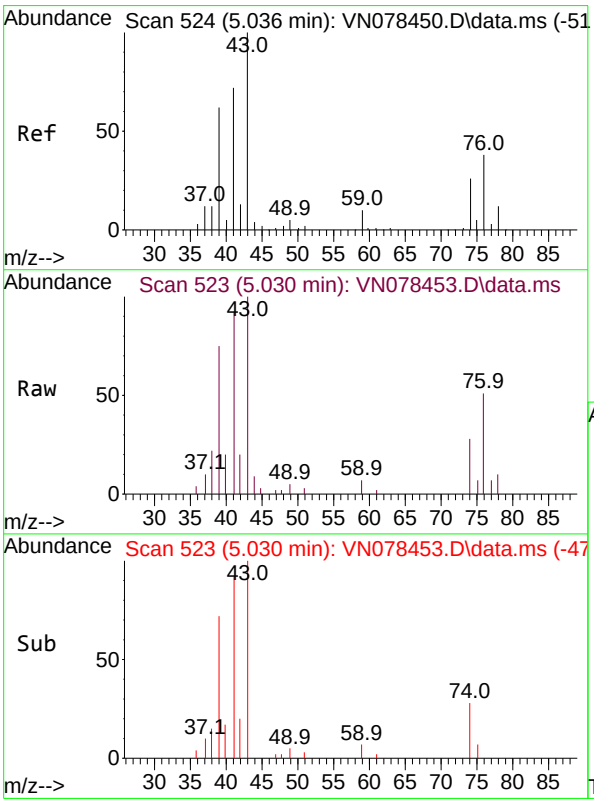
Ion	Ratio	Lower	Upper
56	100		
55	70.4	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

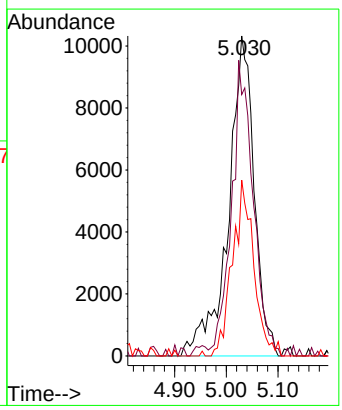
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

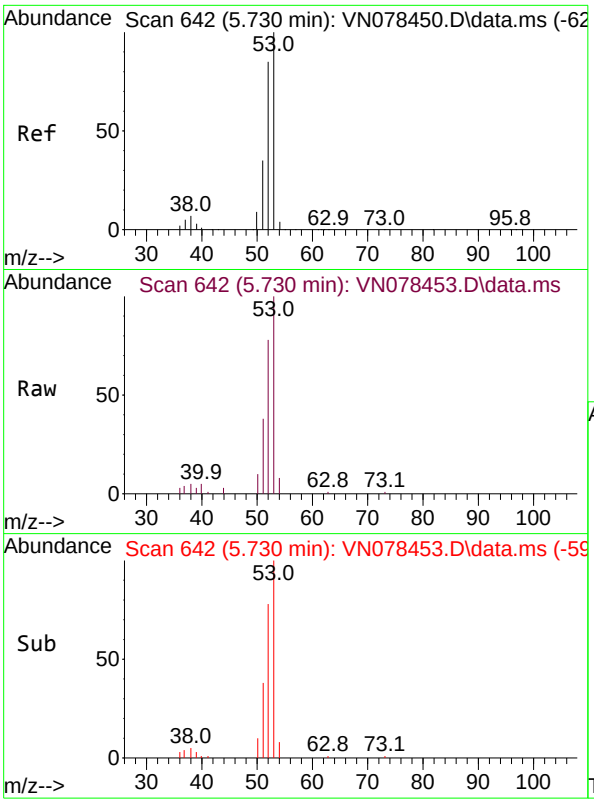


#14
Allyl chloride
Concen: 5.156 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 41 Resp: 35895

Ion	Ratio	Lower	Upper
41	100		
39	77.5	58.8	88.2
76	45.1	39.1	58.7





#15
Acrylonitrile
Concen: 26.030 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

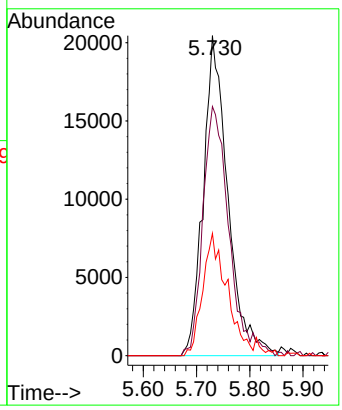
Tgt Ion: 53 Resp: 6564

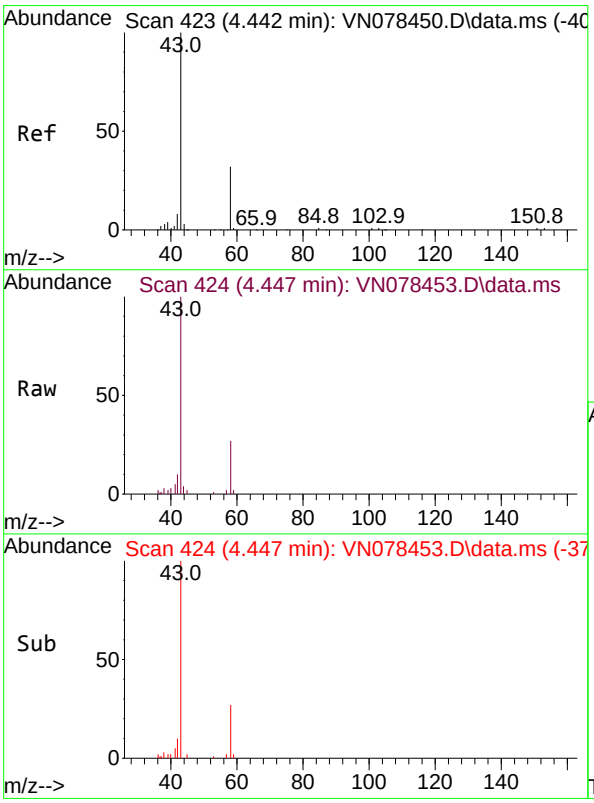
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.3	97.9
51	37.9	28.9	43.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

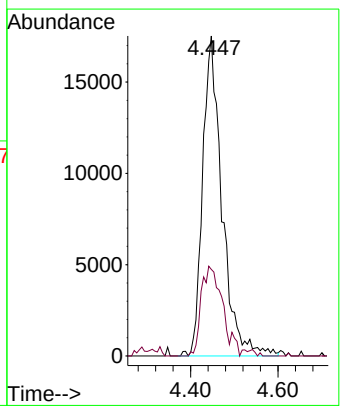


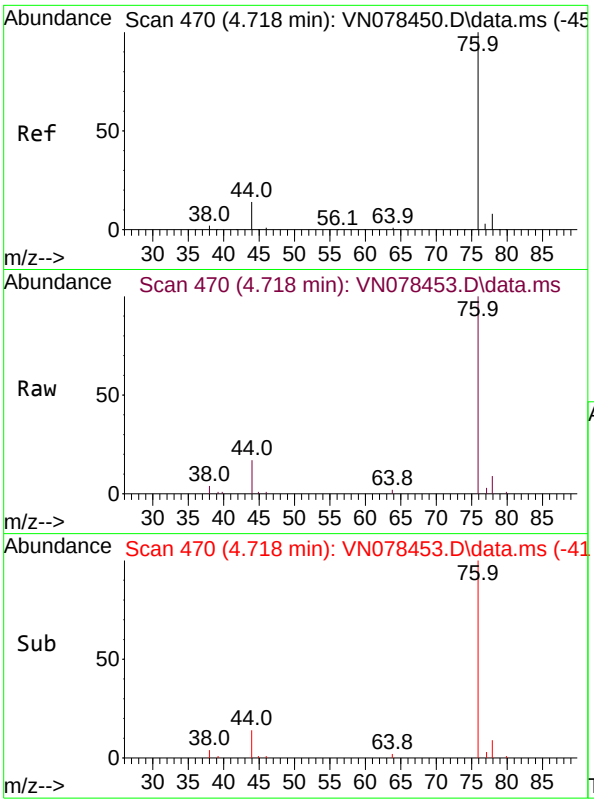


#16
Acetone
Concen: 26.793 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 54025

Ion	Ratio	Lower	Upper
43	100		
58	27.0	28.0	42.0#

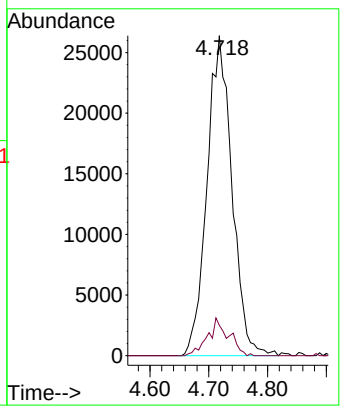




#17
Carbon Disulfide
Concen: 5.292 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 76 Resp: 7797

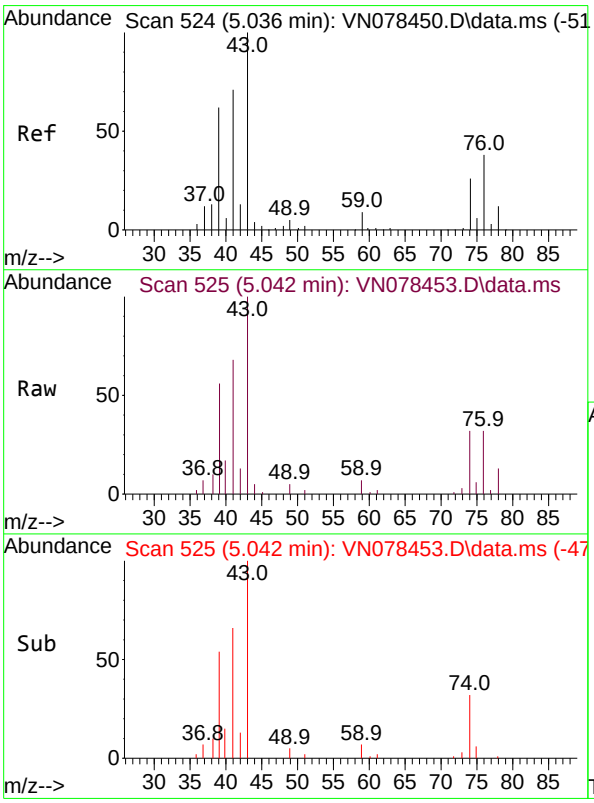
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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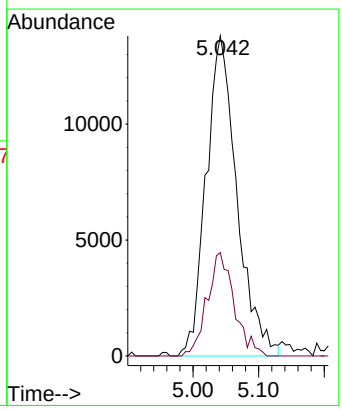
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

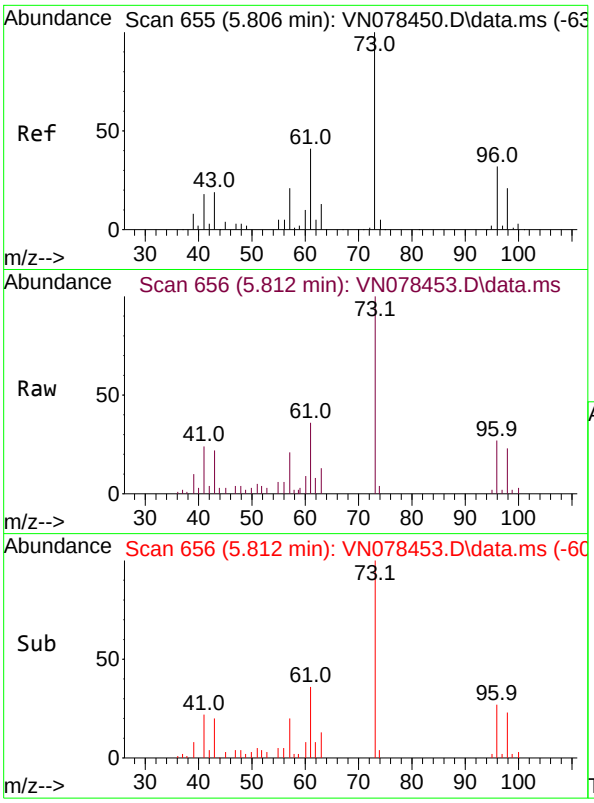


#18
Methyl Acetate
Concen: 5.275 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 45027

Ion	Ratio	Lower	Upper
43	100		
74	28.3	26.2	39.4

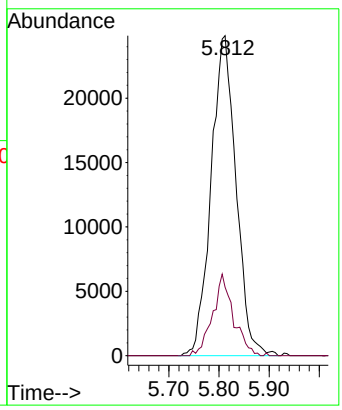




#19
Methyl tert-butyl Ether
Concen: 5.122 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 73 Resp: 8598

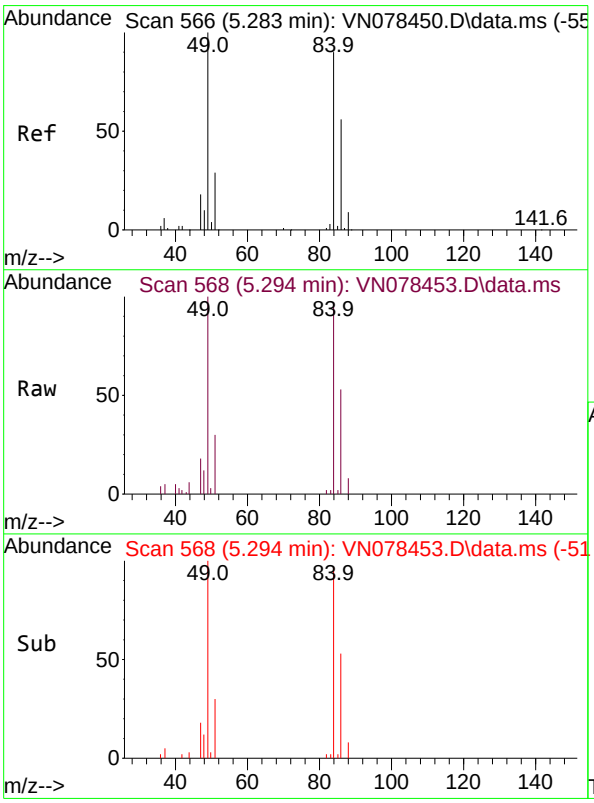
Ion	Ratio	Lower	Upper
73	100		
57	21.4	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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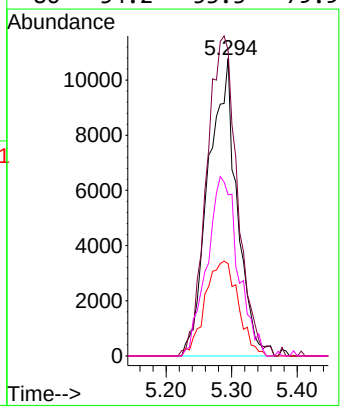
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

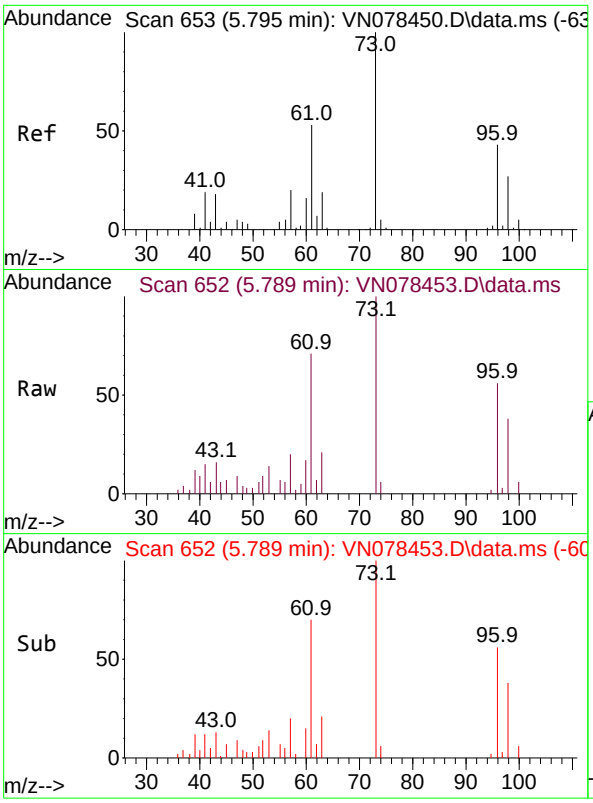


#20
Methylene Chloride
Concen: 5.137 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 84 Resp: 32630

Ion	Ratio	Lower	Upper
84	100		
49	102.8	79.7	119.5
51	31.0	25.2	37.8
86	54.2	53.3	79.9

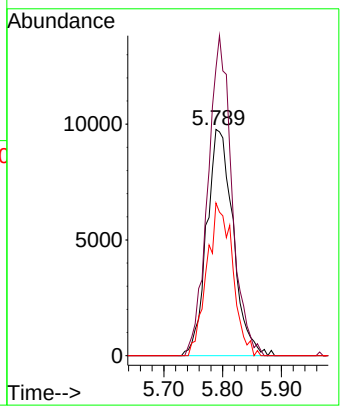




#21
trans-1,2-Dichloroethene
Concen: 5.303 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 96 Resp: 3044

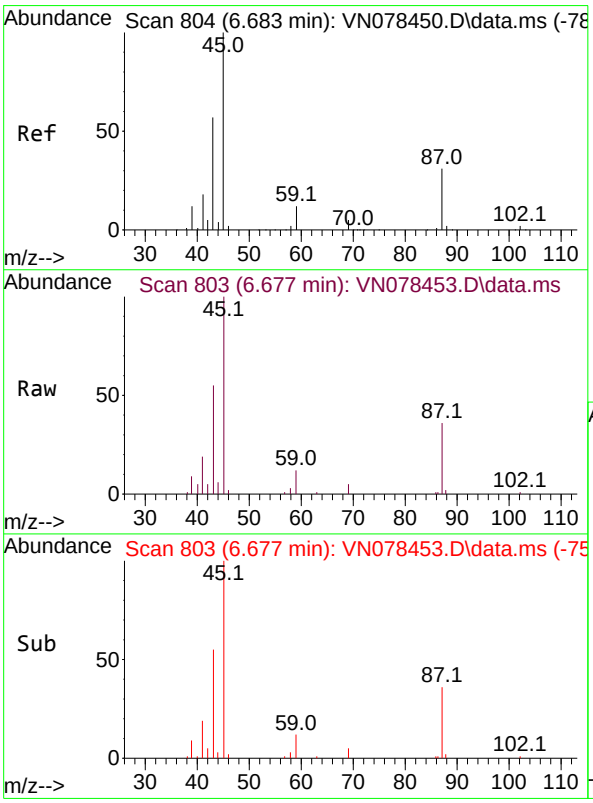
Ion	Ratio	Lower	Upper
96	100		
61	127.1	90.1	135.1
98	67.5	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

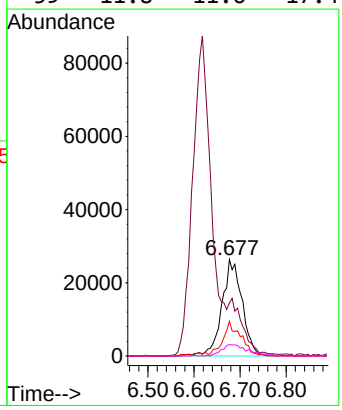
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

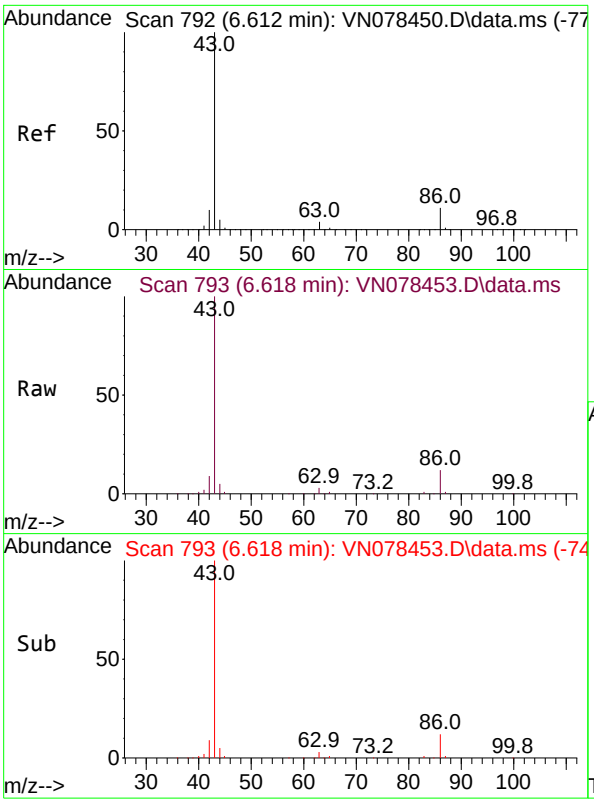


#22
Diisopropyl ether
Concen: 5.116 ug/l
RT: 6.677 min Scan# 803
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 45 Resp: 79756

Ion	Ratio	Lower	Upper
45	100		
43	53.4	45.5	68.3
87	36.0	31.8	47.8
59	11.8	11.6	17.4





#23
Vinyl Acetate
Concen: 24.912 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

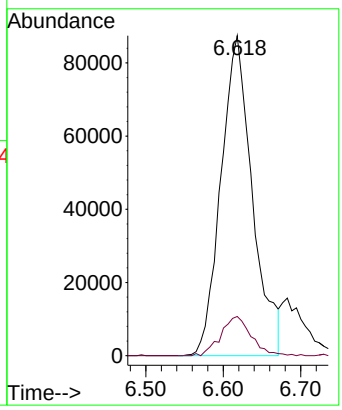
Tgt Ion: 43 Resp: 24688

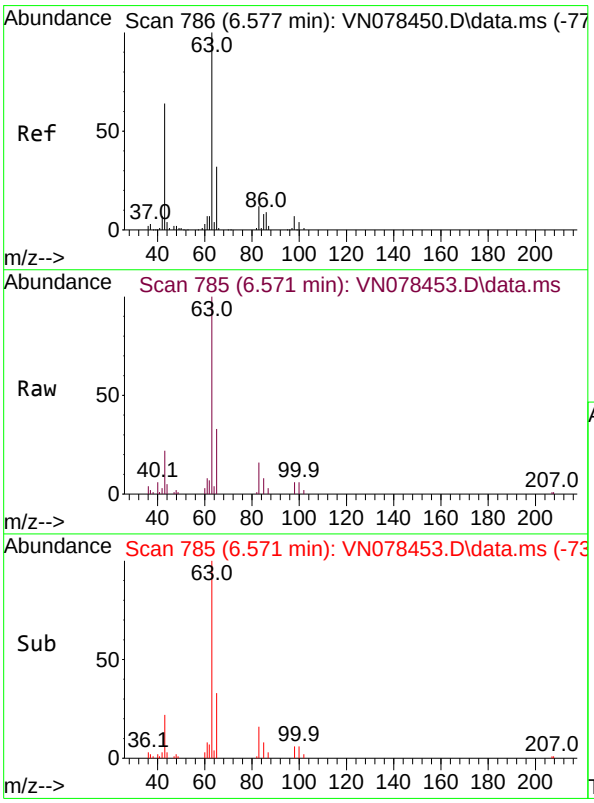
Ion	Ratio	Lower	Upper
43	100		
86	12.2	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

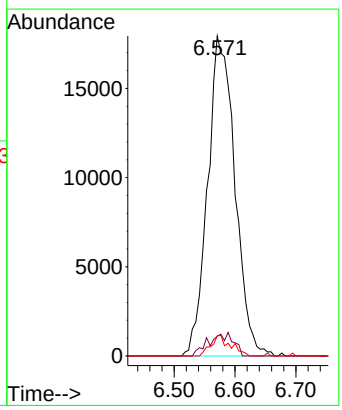


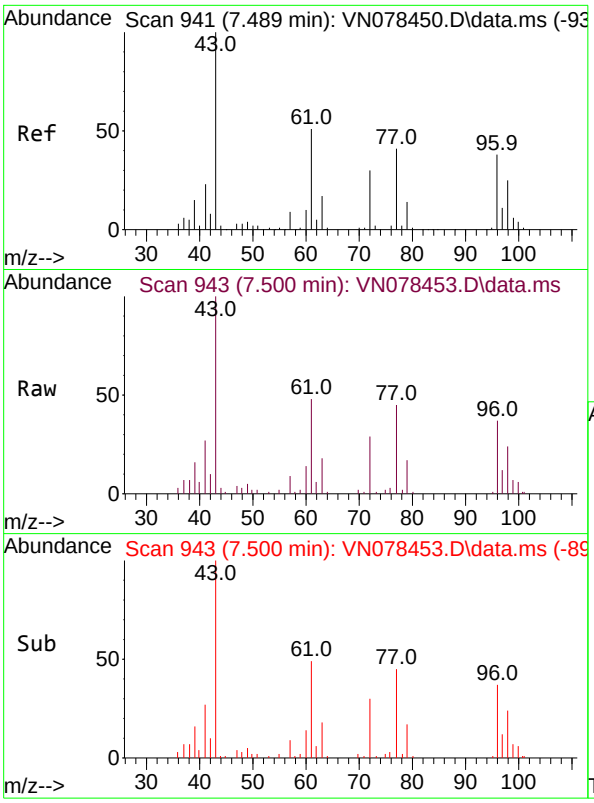


#24
1,1-Dichloroethane
Concen: 5.315 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 63 Resp: 55830

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.9	11.7
100	6.3	2.5	7.4





#25
2-Butanone
Concen: 25.018 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.011 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

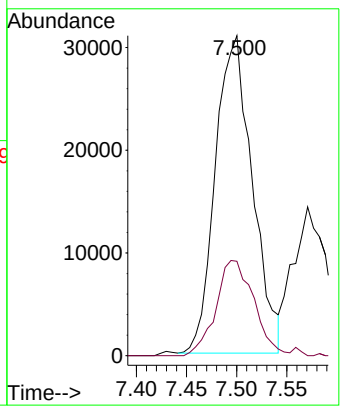
Tgt Ion: 43 Resp: 7940

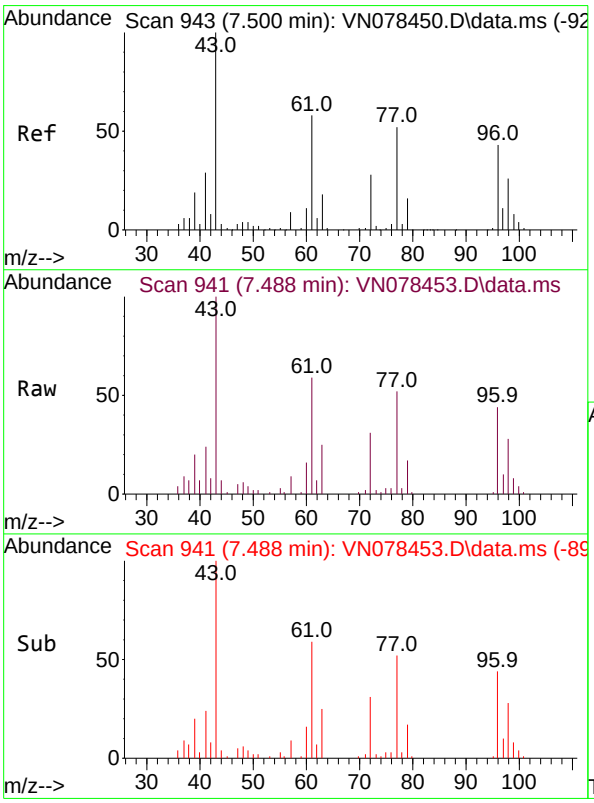
Ion	Ratio	Lower	Upper
43	100		
72	29.7	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

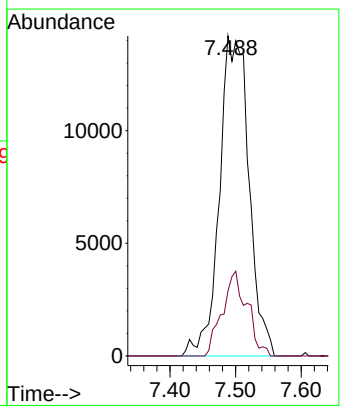


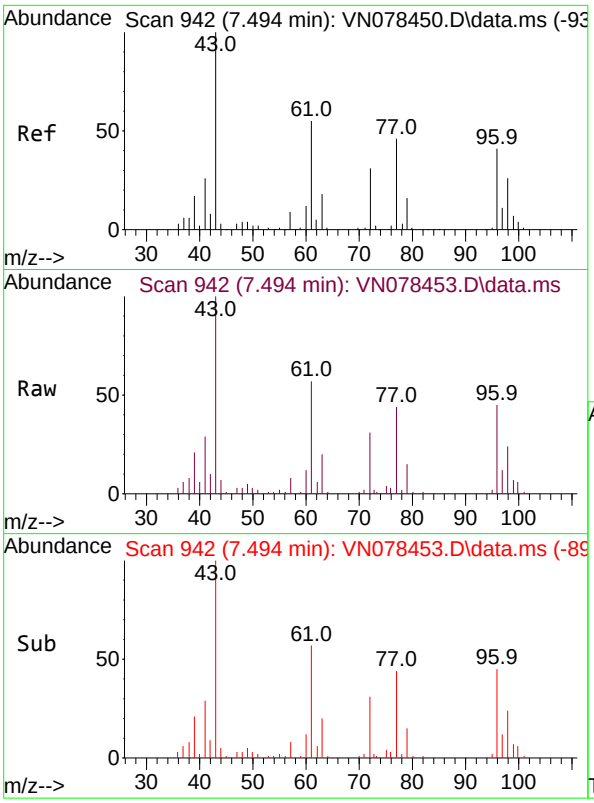


#26
2,2-Dichloropropane
Concen: 5.155 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.012 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 77 Resp: 44289

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.6

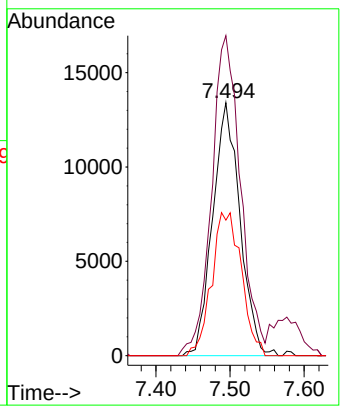




#27
cis-1,2-Dichloroethene
Concen: 5.167 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 96 Resp: 3432

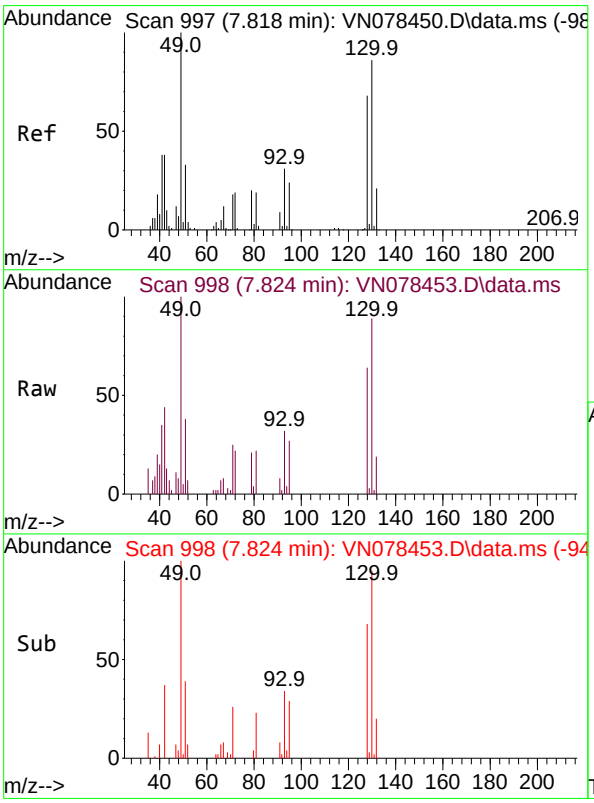
Ion	Ratio	Lower	Upper
96	100		
61	133.6	0.0	255.2
98	61.7	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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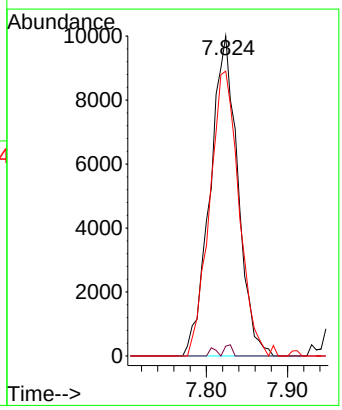
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

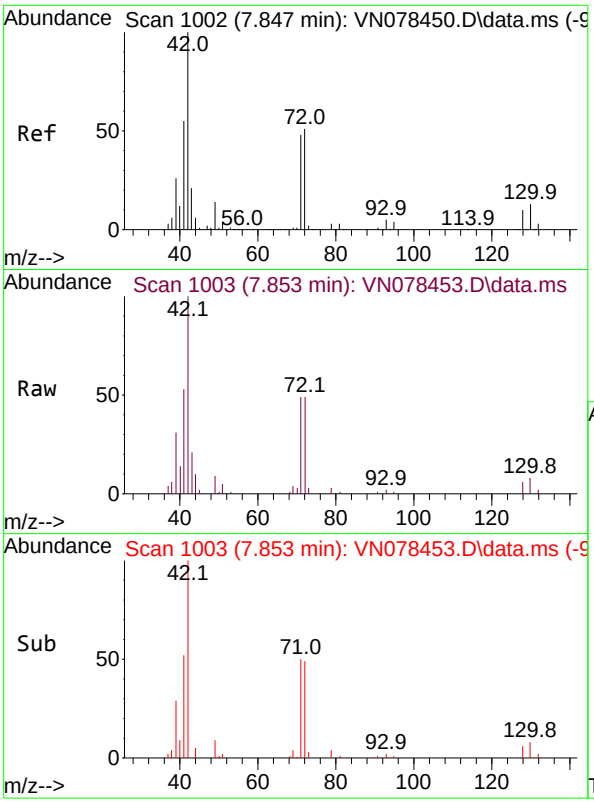


#28
Bromochloromethane
Concen: 4.802 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 49 Resp: 23758

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.8
130	93.5	75.3	112.9





#29
Tetrahydrofuran
Concen: 25.304 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

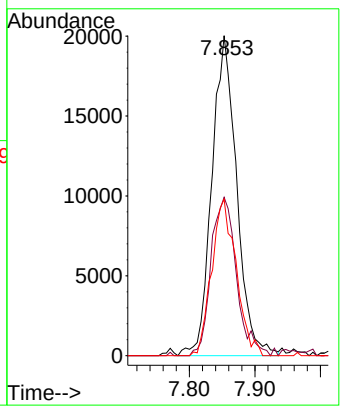
Tgt Ion: 42 Resp: 5270

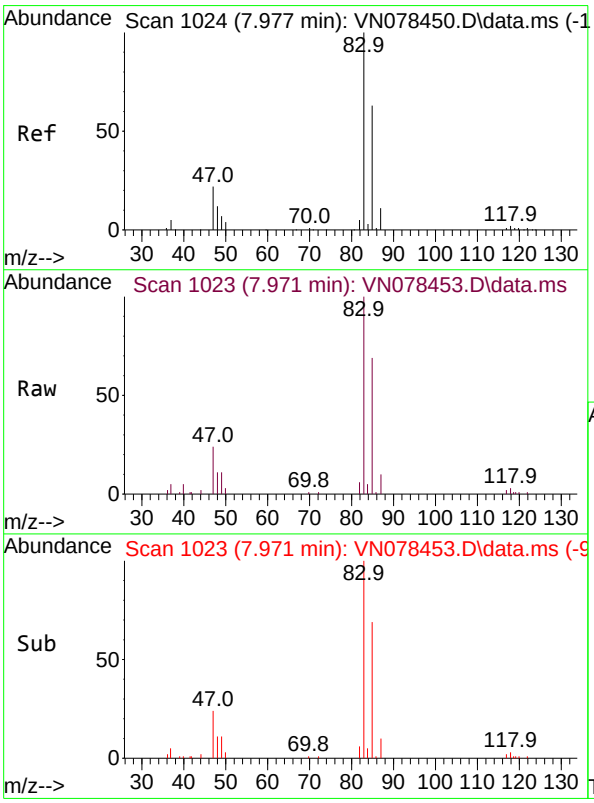
Ion	Ratio	Lower	Upper
42	100		
72	50.5	49.8	74.6
71	48.2	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

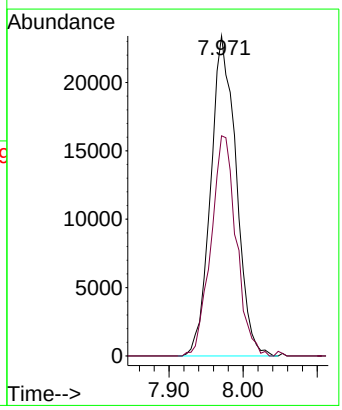


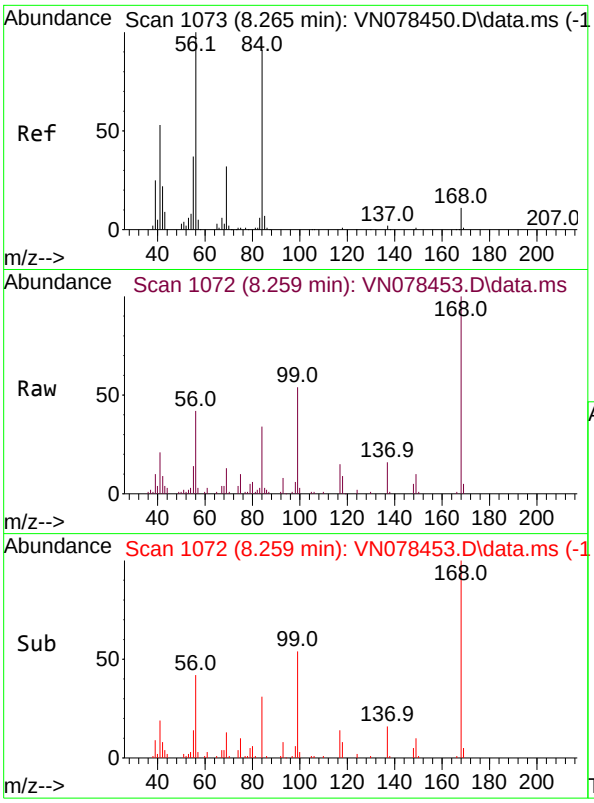


#30
Chloroform
Concen: 5.109 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 83 Resp: 55875

Ion	Ratio	Lower	Upper
83	100		
85	68.8	55.4	83.0

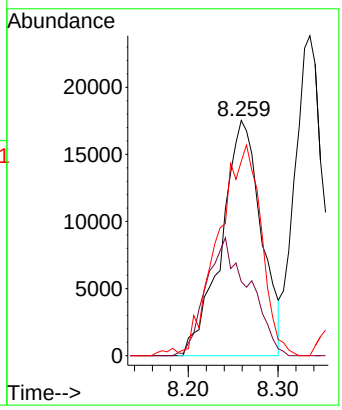




#31
Cyclohexane
Concen: 6.165 ug/l
RT: 8.259 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 56 Resp: 5393

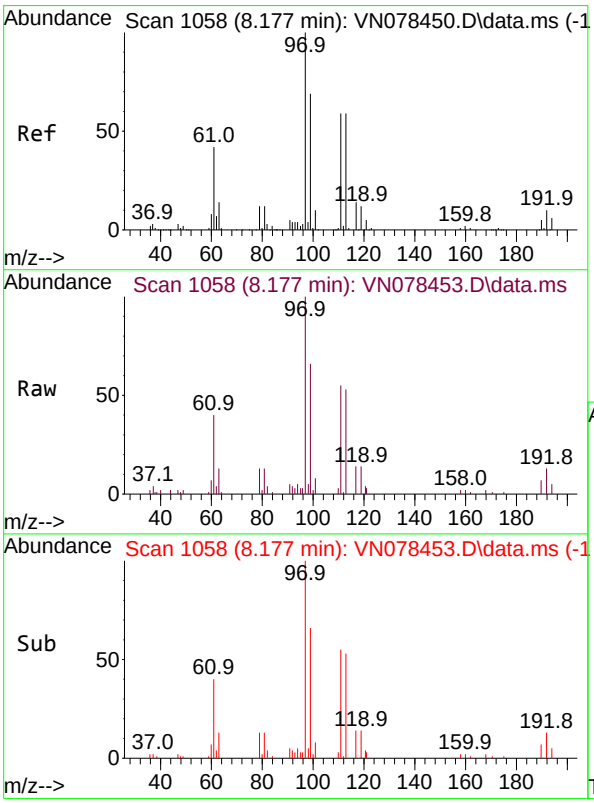
Ion	Ratio	Lower	Upper
56	100		
69	30.4	26.8	40.2
84	81.2	81.8	122.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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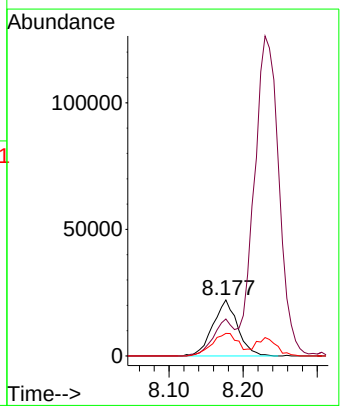
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

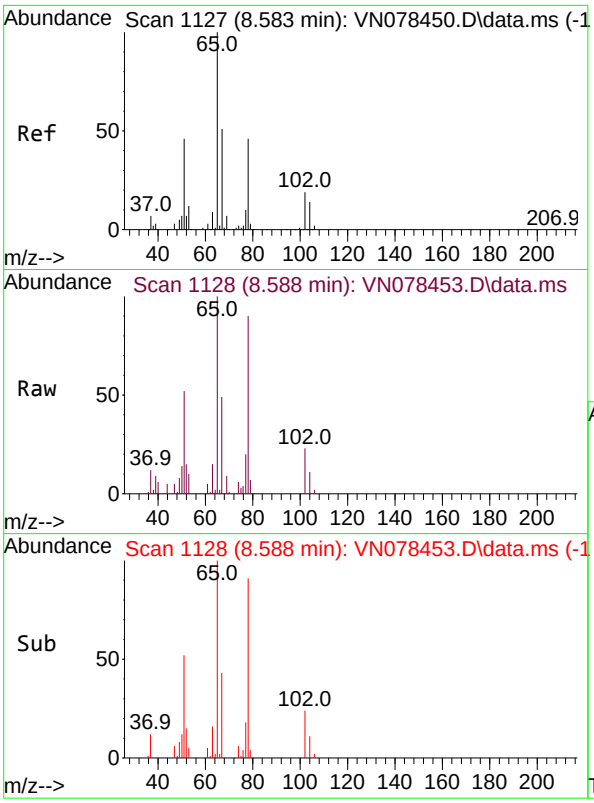


#32
1,1,1-Trichloroethane
Concen: 5.210 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 97 Resp: 51084

Ion	Ratio	Lower	Upper
97	100		
99	53.8	50.3	75.5
61	45.4	34.7	52.1





#33
1,2-Dichloroethane-d4
Concen: 5.267 ug/l
RT: 8.588 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

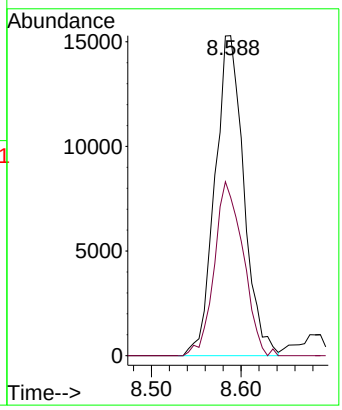
Tgt Ion: 65 Resp: 3409

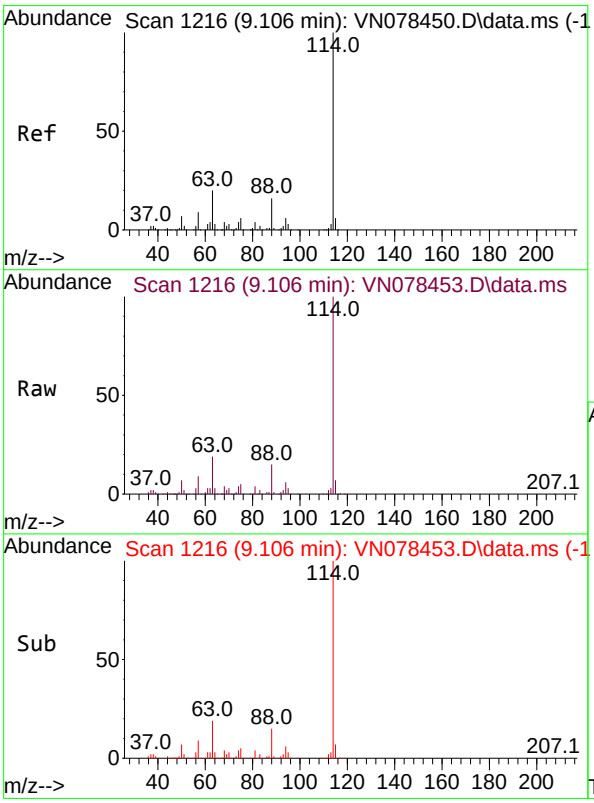
Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	106.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

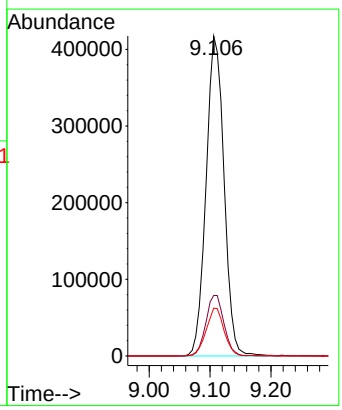


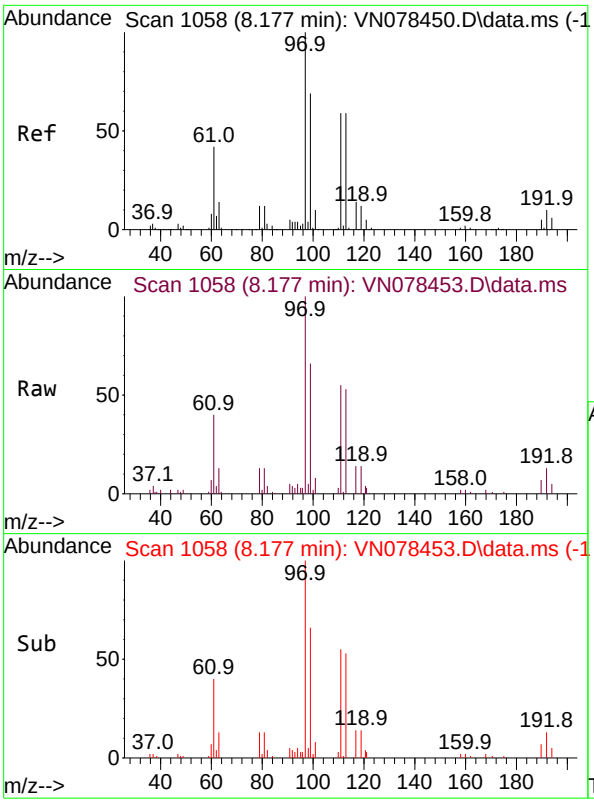


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:114 Resp: 855204

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	36.4
88	15.0	0.0	30.6

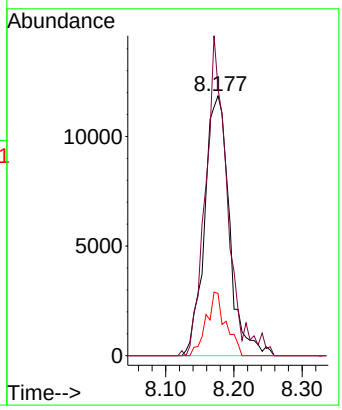




#35
Dibromofluoromethane
Concen: 5.177 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:113 Resp: 3005

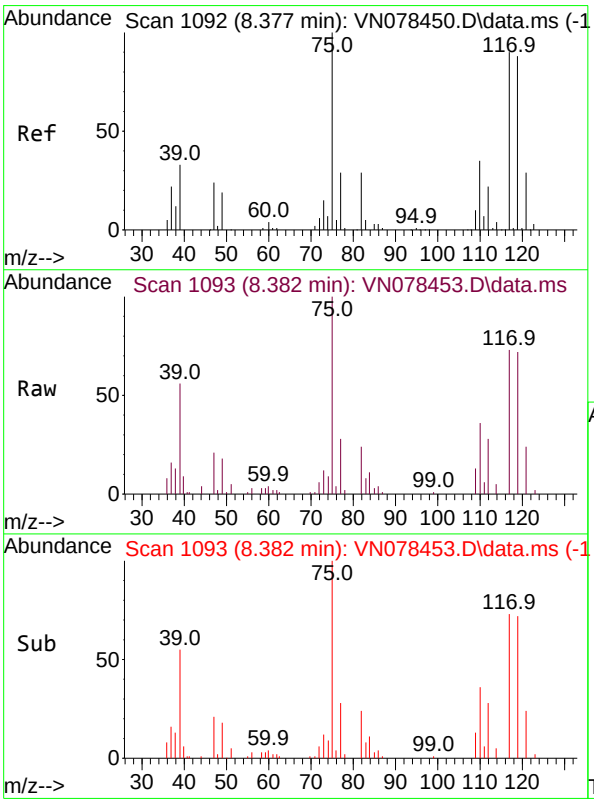
Ion	Ratio	Lower	Upper
113	100		
111	108.4	82.6	123.8
192	19.2	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

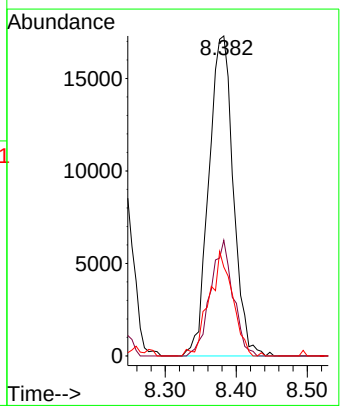
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

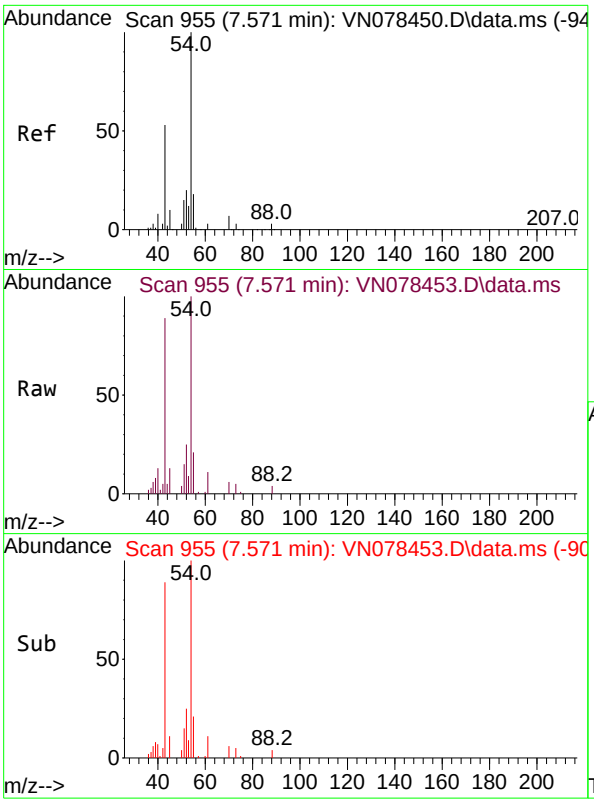


#36
1,1-Dichloropropene
Concen: 4.921 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.005 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 41253

Ion	Ratio	Lower	Upper
75	100		
110	33.6	19.1	57.3
77	31.4	25.0	37.4





#37
Ethyl Acetate
Concen: 4.808 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

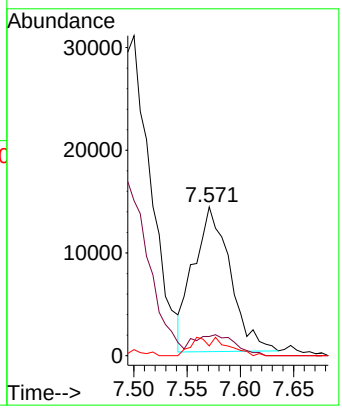
Tgt Ion: 43 Resp: 3359

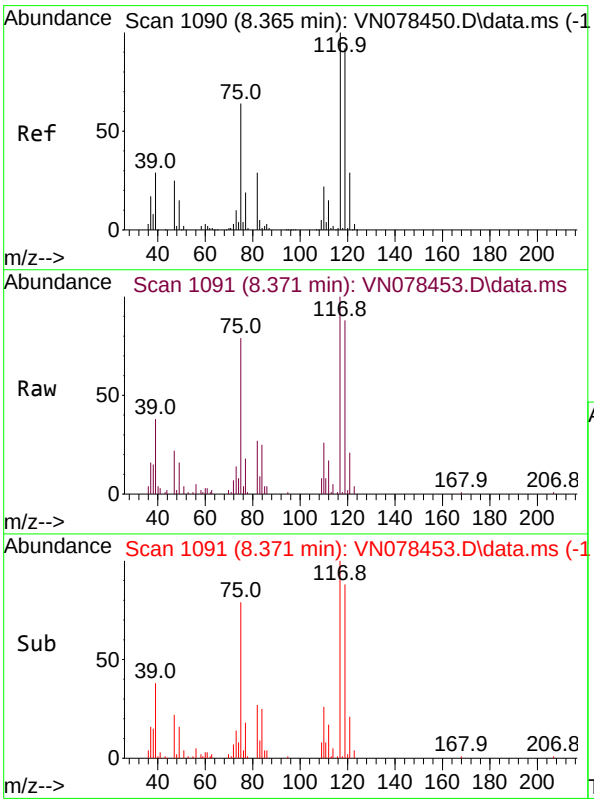
Ion	Ratio	Lower	Upper
43	100		
61	16.4	13.2	19.8
70	6.1	11.3	16.9#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

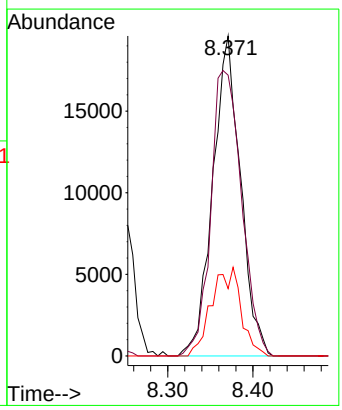


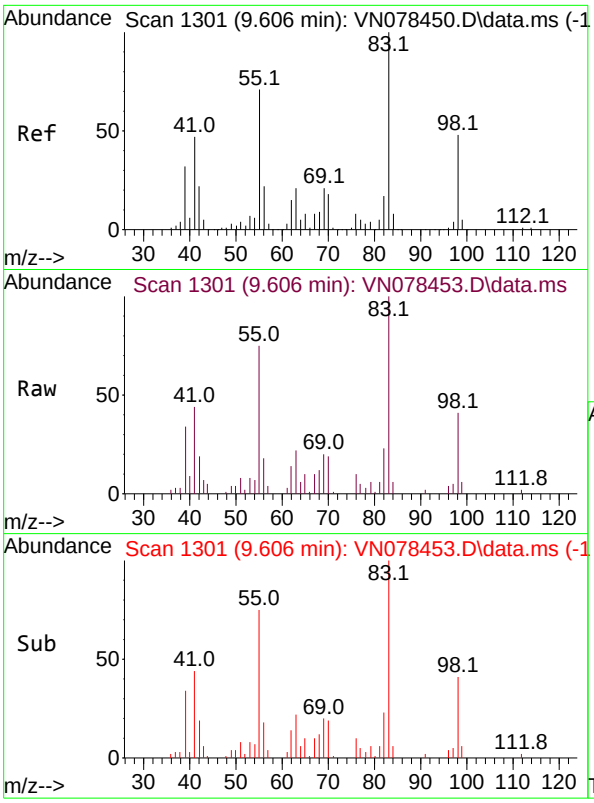


#38
Carbon Tetrachloride
Concen: 4.865 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:117 Resp: 44321

Ion	Ratio	Lower	Upper
117	100		
119	87.8	77.3	115.9
121	21.1	23.3	34.9#

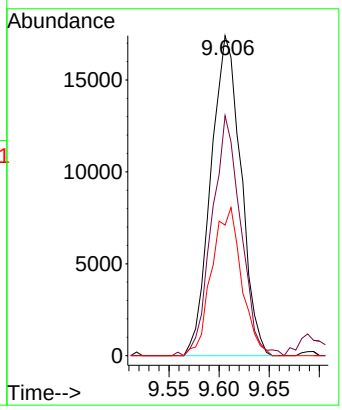




#39
Methylcyclohexane
Concen: 4.732 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 83 Resp: 3620

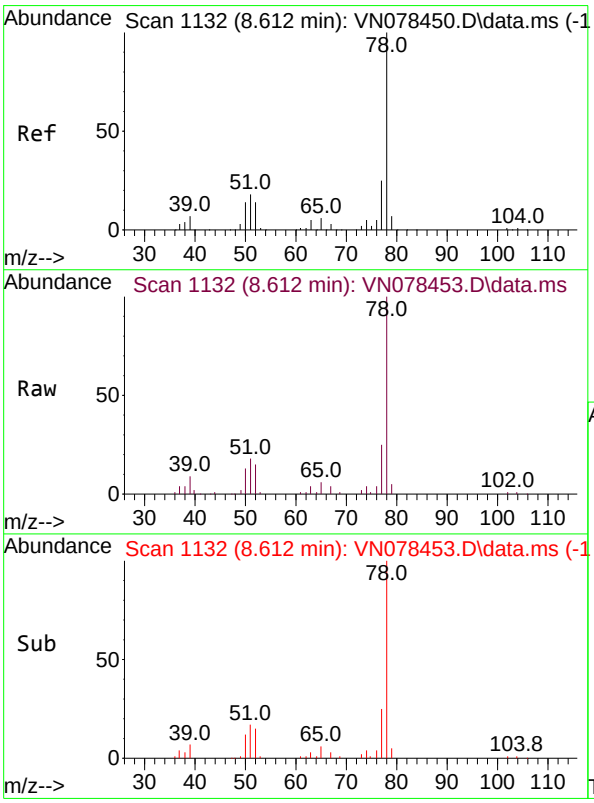
Ion	Ratio	Lower	Upper
83	100		
55	73.9	49.1	73.7
98	40.8	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

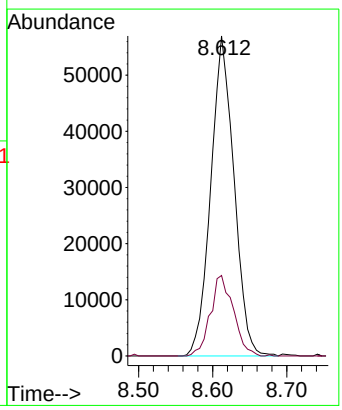
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

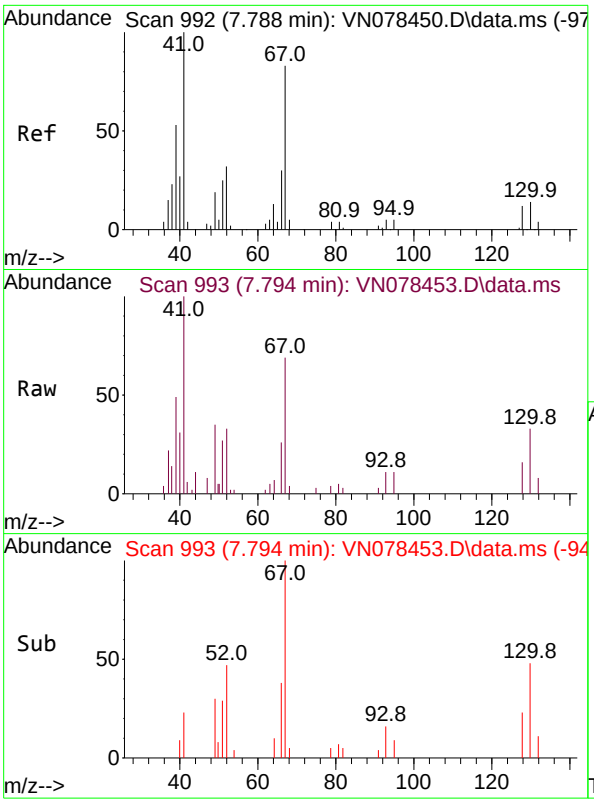


#40
Benzene
Concen: 4.993 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 78 Resp: 123988

Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.6

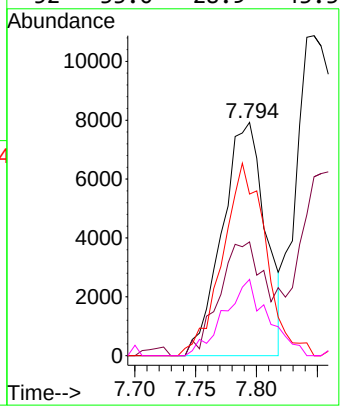




#41
Methacrylonitrile
Concen: 5.493 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 41 Resp: 1956

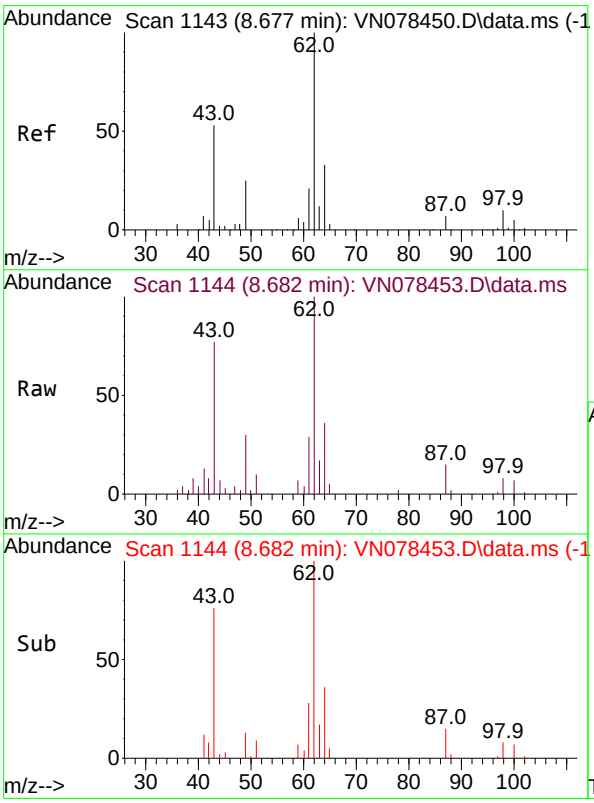
Ion	Ratio	Lower	Upper
41	100		
39	57.6	42.6	64.0
67	82.2	77.5	116.3
52	33.0	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

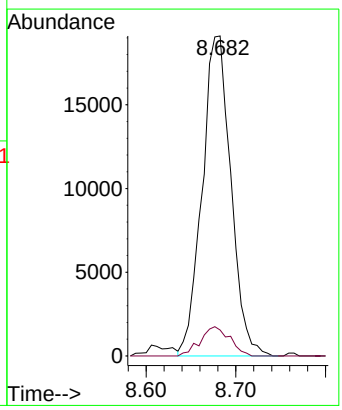
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

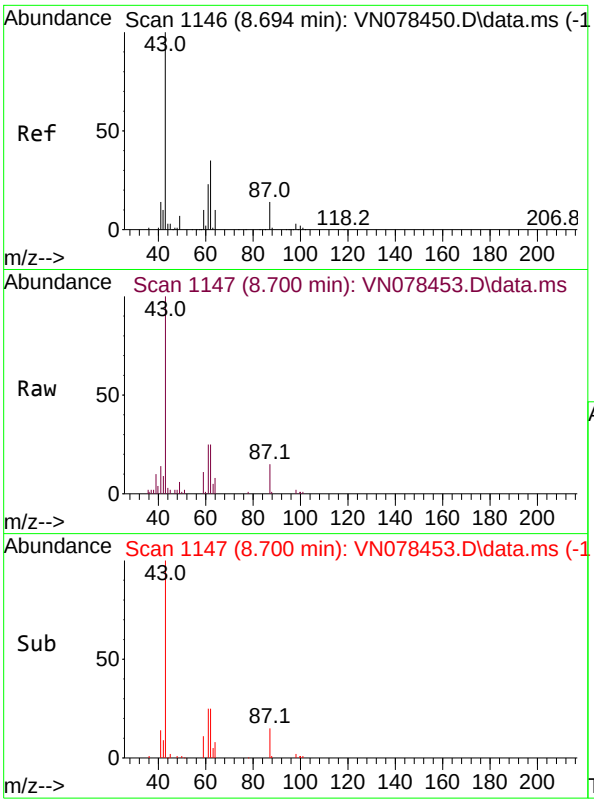


#42
1,2-Dichloroethane
Concen: 5.031 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 62 Resp: 42498

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.8

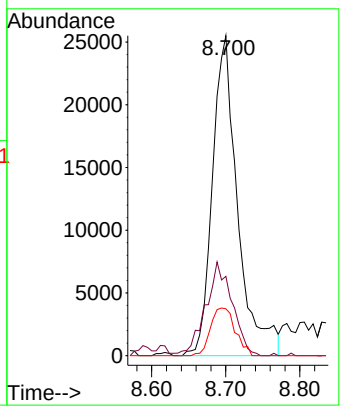




#43
Isopropyl Acetate
Concen: 5.249 ug/l
RT: 8.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 6038

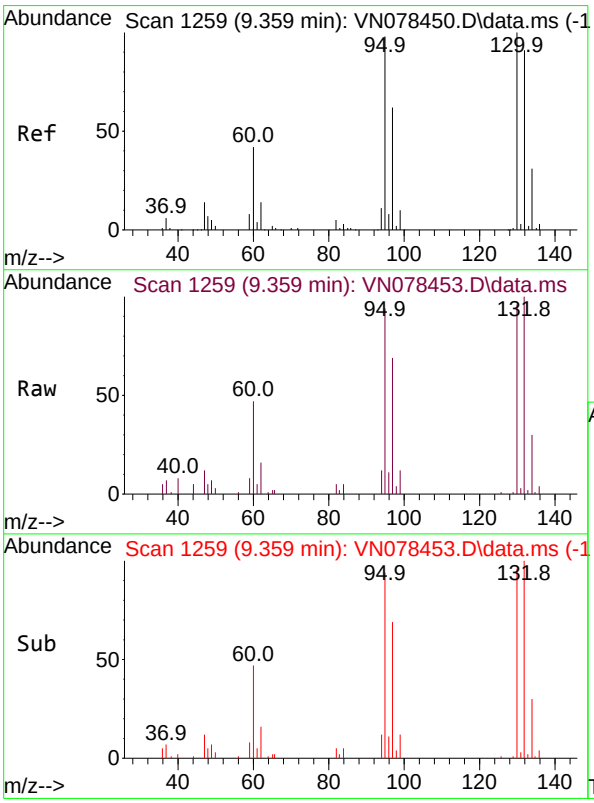
Ion	Ratio	Lower	Upper
43	100		
61	30.8	24.7	37.1
87	14.6	14.6	21.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

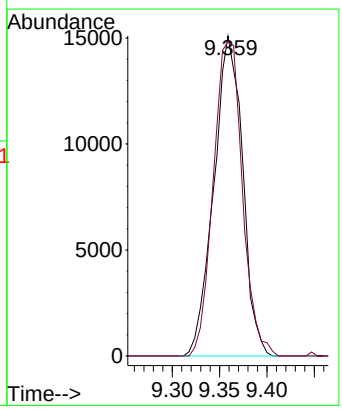
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

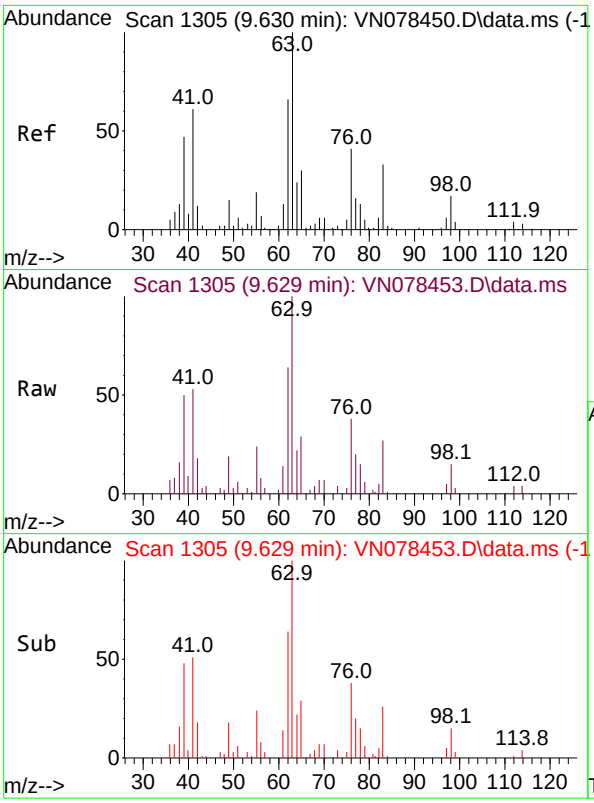


#44
Trichloroethene
Concen: 4.770 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:130 Resp: 31928

Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	204.6

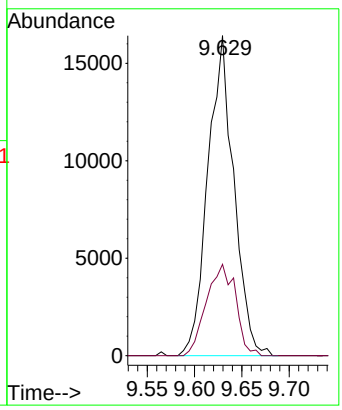




#45
1,2-Dichloropropane
Concen: 4.984 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 63 Resp: 3134

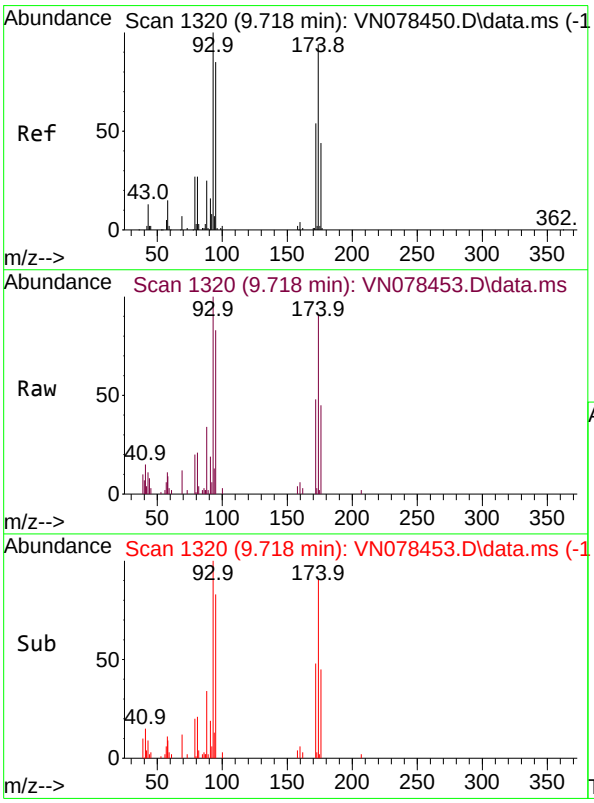
Ion	Ratio	Lower	Upper
63	100		
65	28.6	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

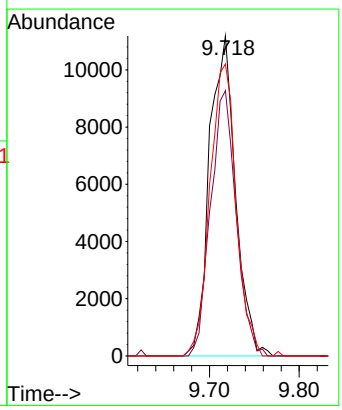
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

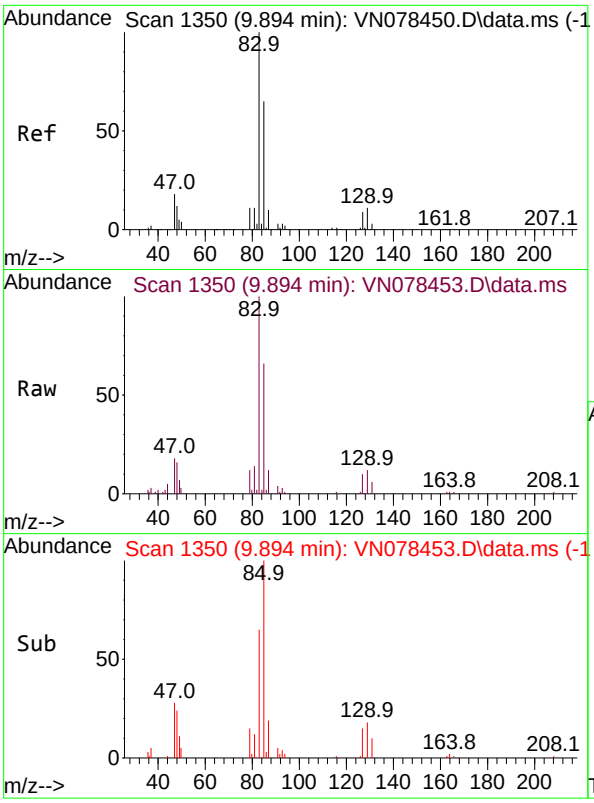


#46
Dibromomethane
Concen: 5.083 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 93 Resp: 22501

Ion	Ratio	Lower	Upper
93	100		
95	81.2	63.8	95.8
174	91.6	65.6	98.4

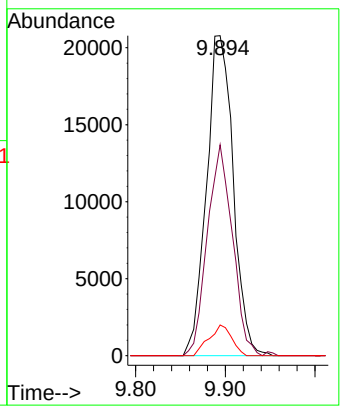




#47
Bromodichloromethane
Concen: 4.844 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 83 Resp: 4298

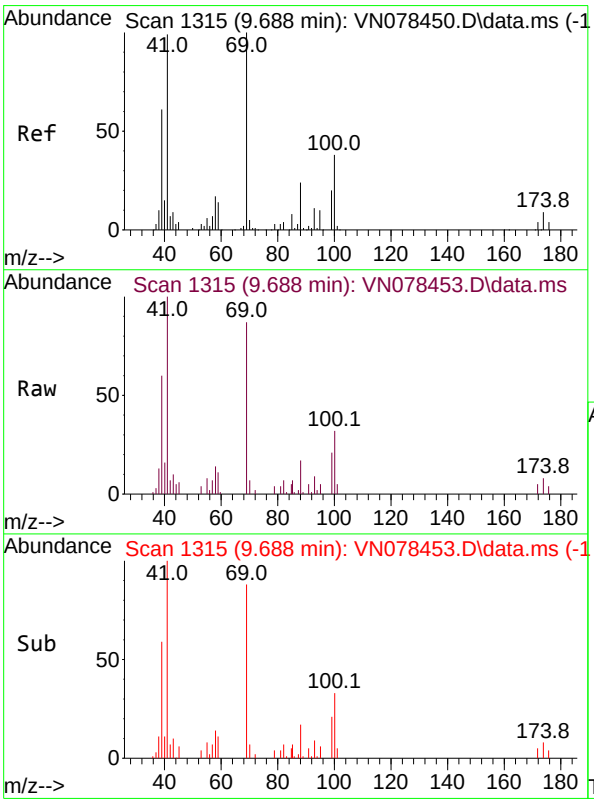
Ion	Ratio	Lower	Upper
83	100		
85	65.9	49.6	74.4
127	9.6	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

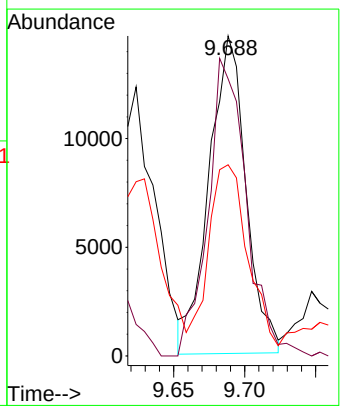
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

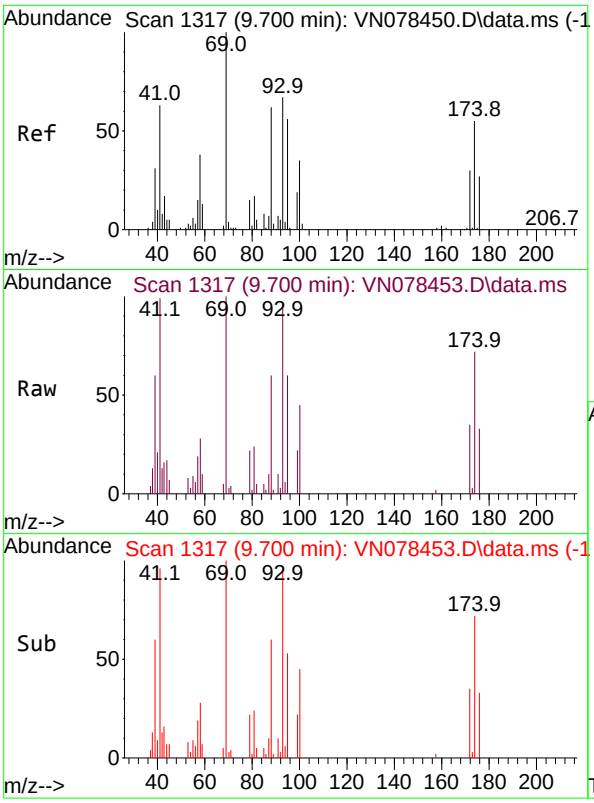


#48
Methyl methacrylate
Concen: 4.961 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 41 Resp: 26441

Ion	Ratio	Lower	Upper
41	100		
69	97.1	90.4	135.6
39	64.4	54.6	81.8

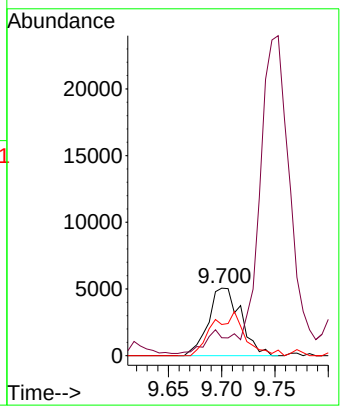




#49
1,4-Dioxane
Concen: 92.648 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 88 Resp: 1076

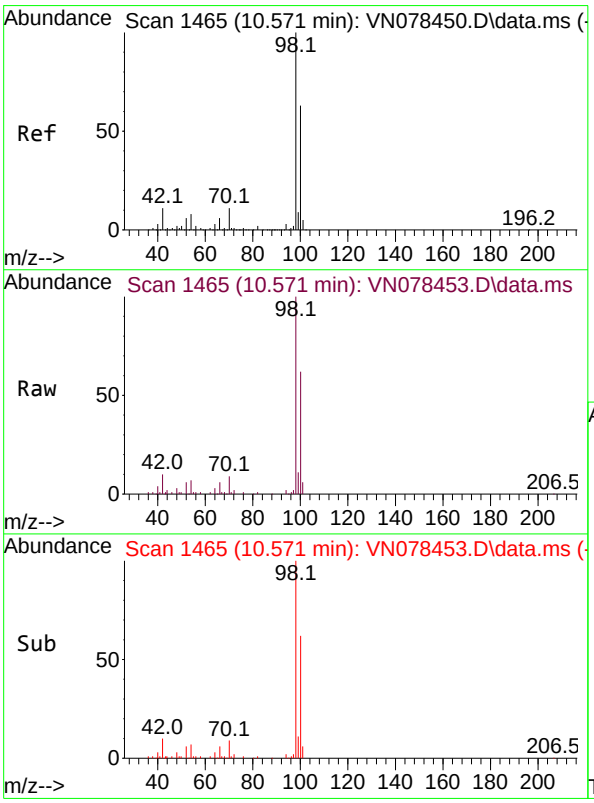
Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.0	25.6
58	64.4	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

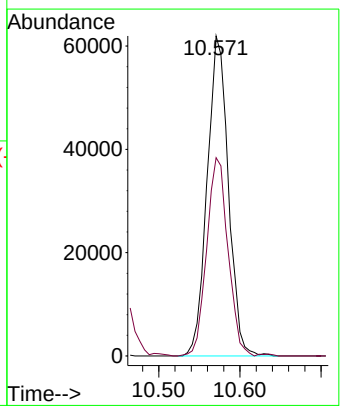
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

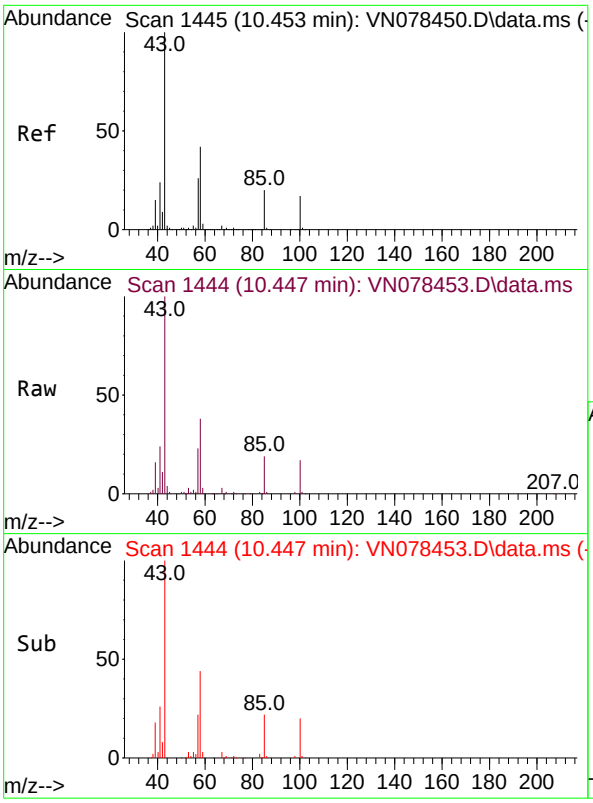


#50
Toluene-d8
Concen: 5.120 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 98 Resp: 112288

Ion	Ratio	Lower	Upper
98	100		
100	62.1	52.0	78.0

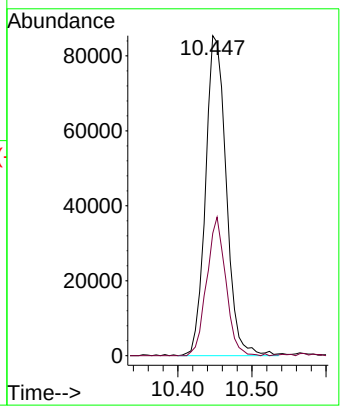




#51
4-Methyl-2-Pentanone
Concen: 24.240 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 16587

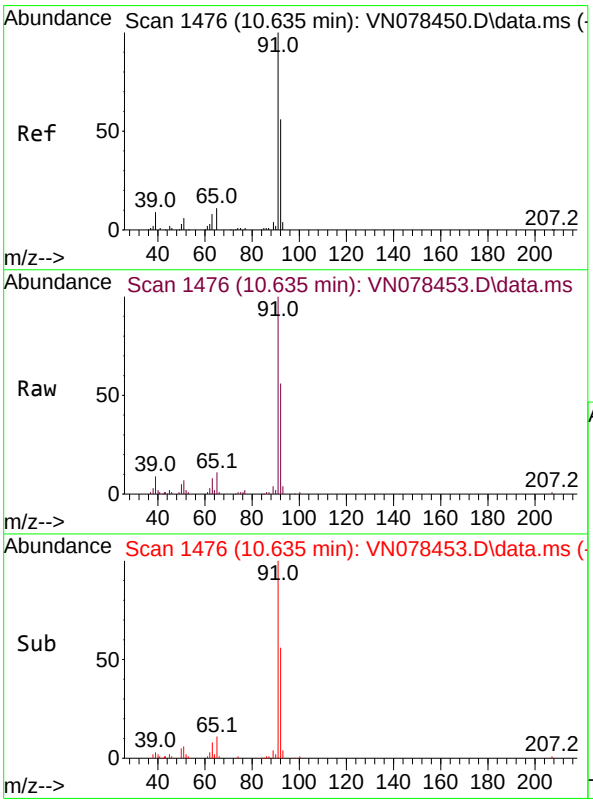
Ion	Ratio	Lower	Upper
43	100		
58	39.8	36.6	54.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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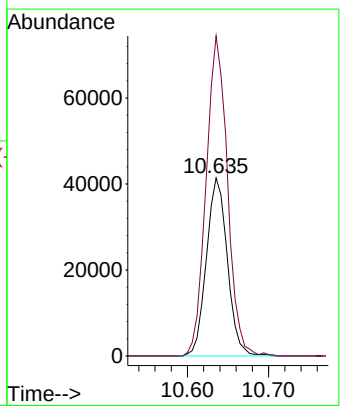
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

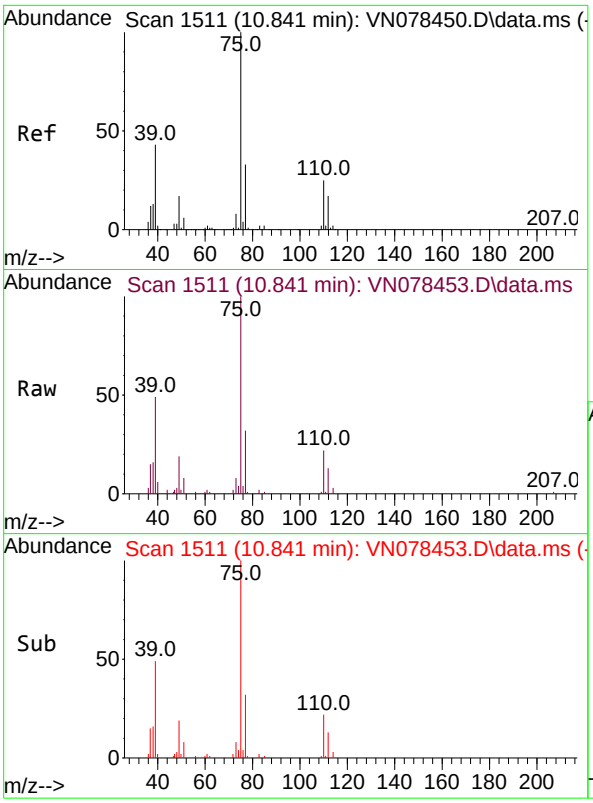


#52
Toluene
Concen: 4.828 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 92 Resp: 74304

Ion	Ratio	Lower	Upper
92	100		
91	183.2	137.4	206.0

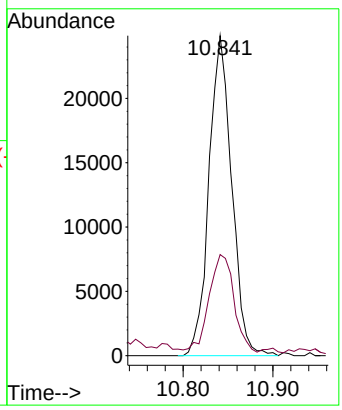




#53
t-1,3-Dichloropropene
Concen: 4.824 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 4385

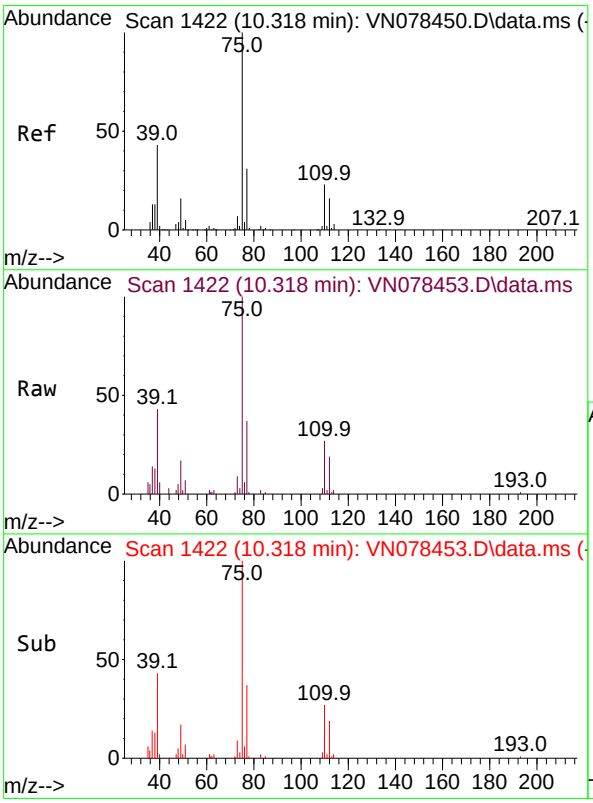
Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

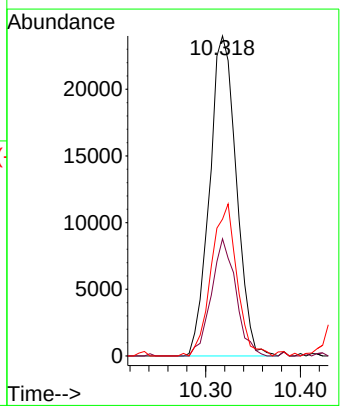
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

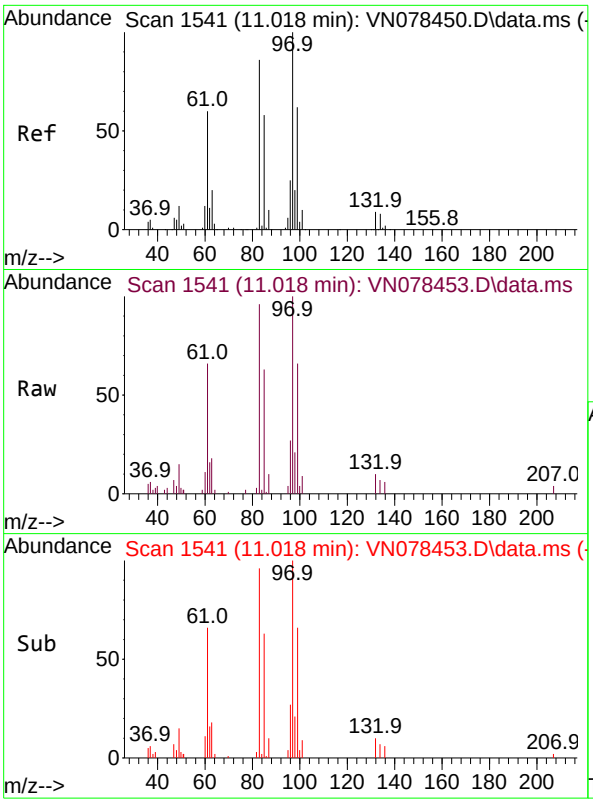


#54
cis-1,3-Dichloropropene
Concen: 4.858 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 47081

Ion	Ratio	Lower	Upper
75	100		
77	36.6	26.1	39.1
39	42.8	31.6	47.4

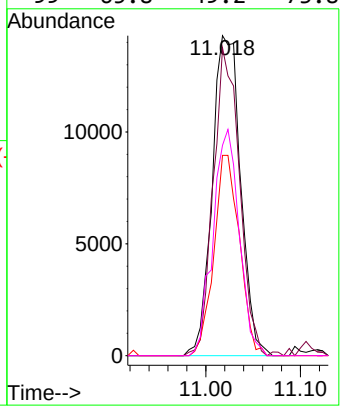




#55
1,1,2-Trichloroethane
Concen: 4.911 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 97 Resp: 2978

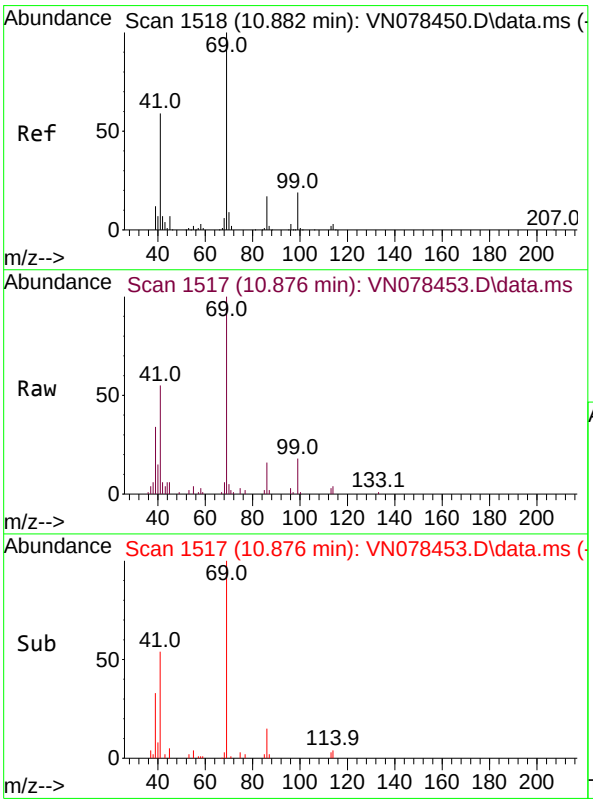
Ion	Ratio	Lower	Upper
97	100		
83	96.2	65.1	97.7
85	62.6	43.4	65.2
99	65.8	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

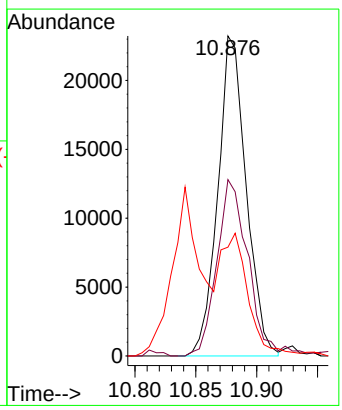
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

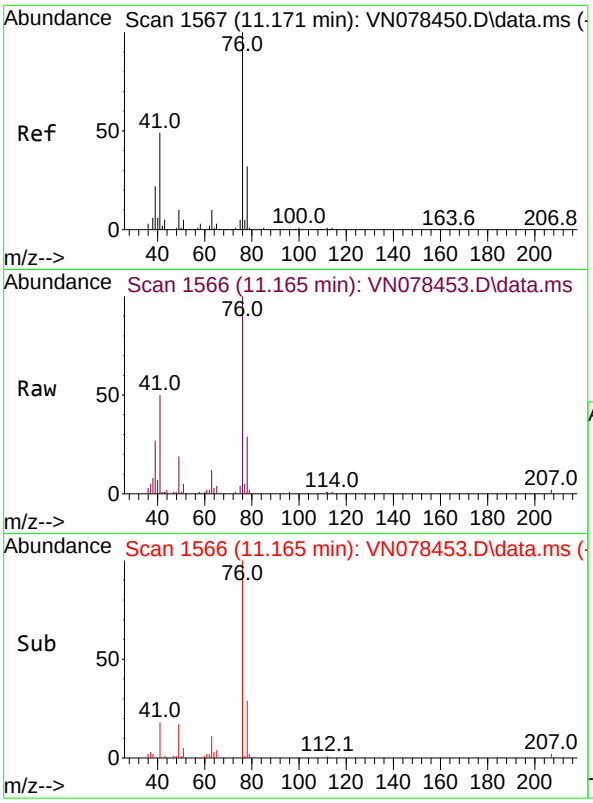


#56
Ethyl methacrylate
Concen: 4.445 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 69 Resp: 37681

Ion	Ratio	Lower	Upper
69	100		
41	61.1	39.6	59.4#
39	35.6	28.6	43.0

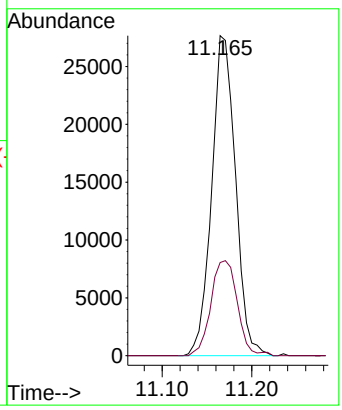




#57
1,3-Dichloropropane
Concen: 4.939 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 76 Resp: 5092

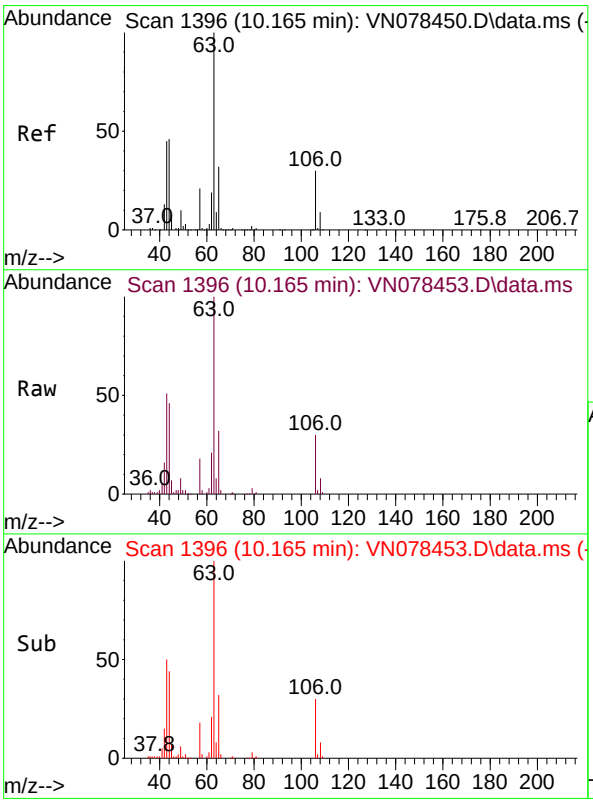
Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

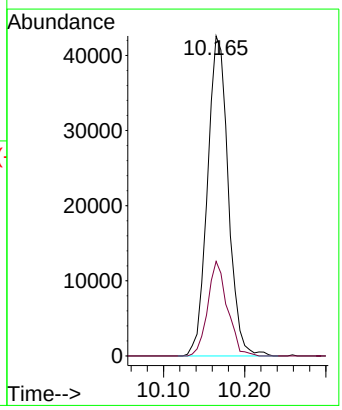
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

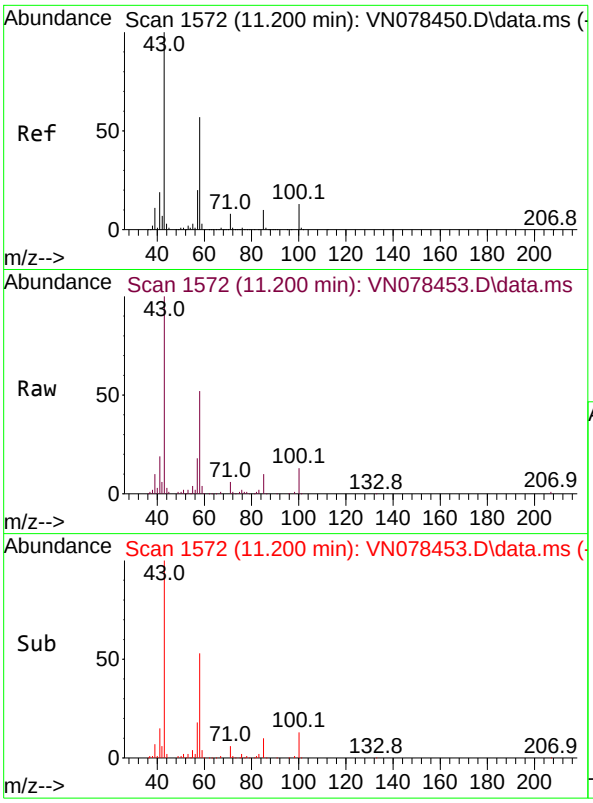


#58
2-Chloroethyl Vinyl ether
Concen: 25.039 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 63 Resp: 75642

Ion	Ratio	Lower	Upper
63	100		
106	28.0	26.2	39.4

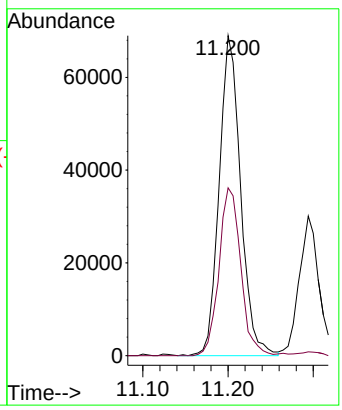




#59
2-Hexanone
Concen: 24.785 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 12053

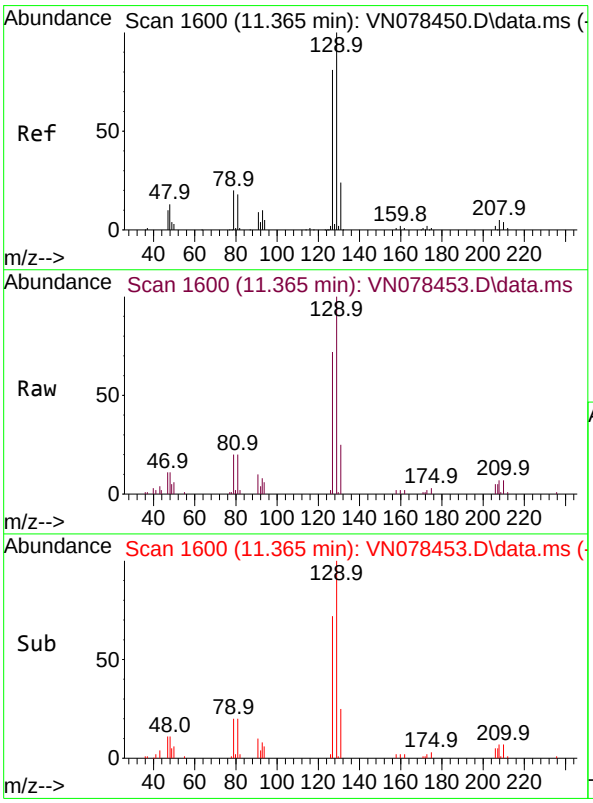
Ion	Ratio	Lower	Upper
43	100		
58	53.3	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

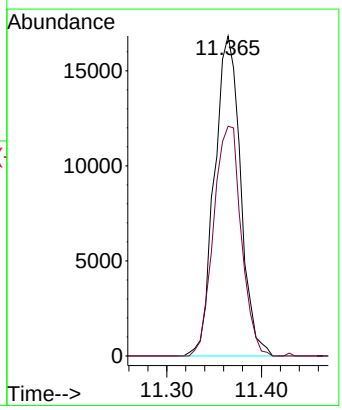
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

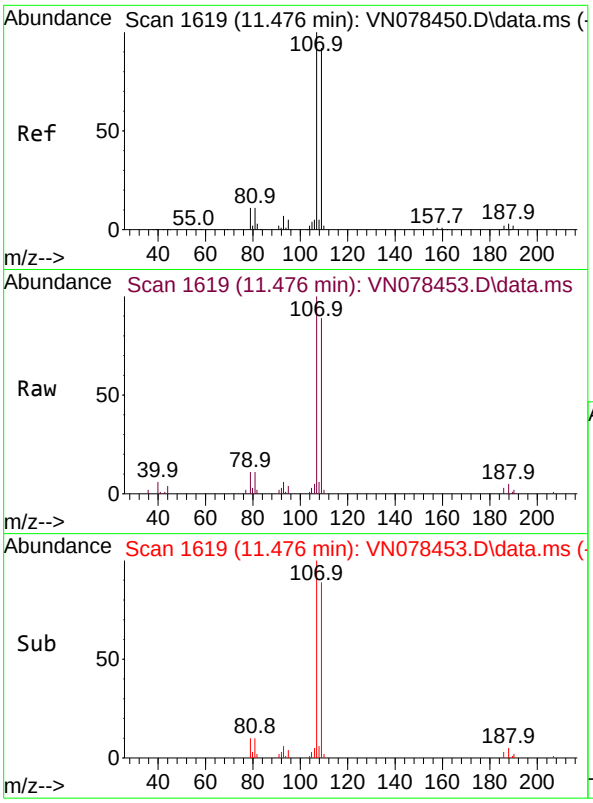


#60
Dibromochloromethane
Concen: 4.817 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:129 Resp: 32246

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.6	116.0

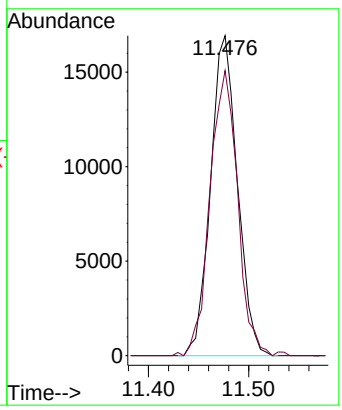




#61
1,2-Dibromoethane
Concen: 5.040 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:107 Resp: 3148

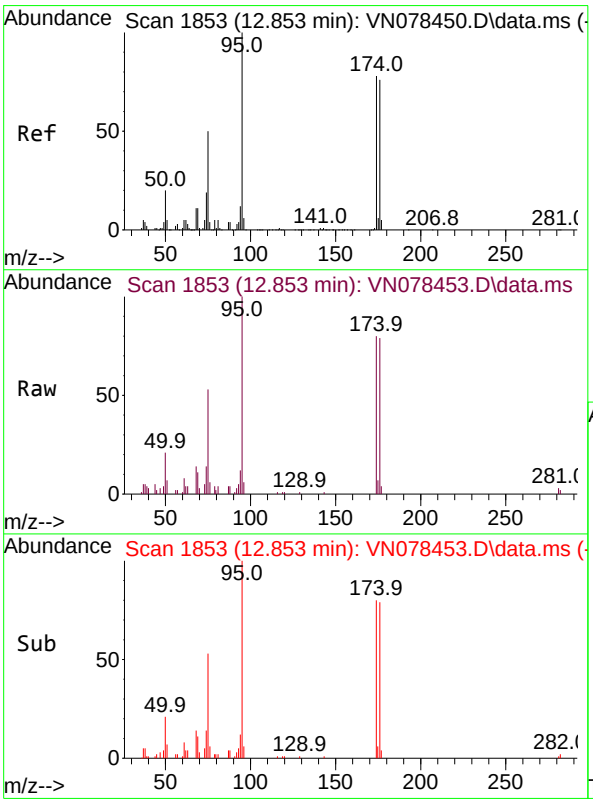
Ion	Ratio	Lower	Upper
107	100		
109	91.4	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

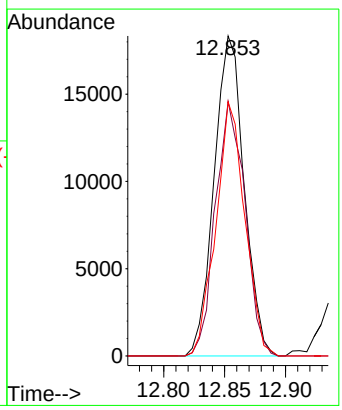
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

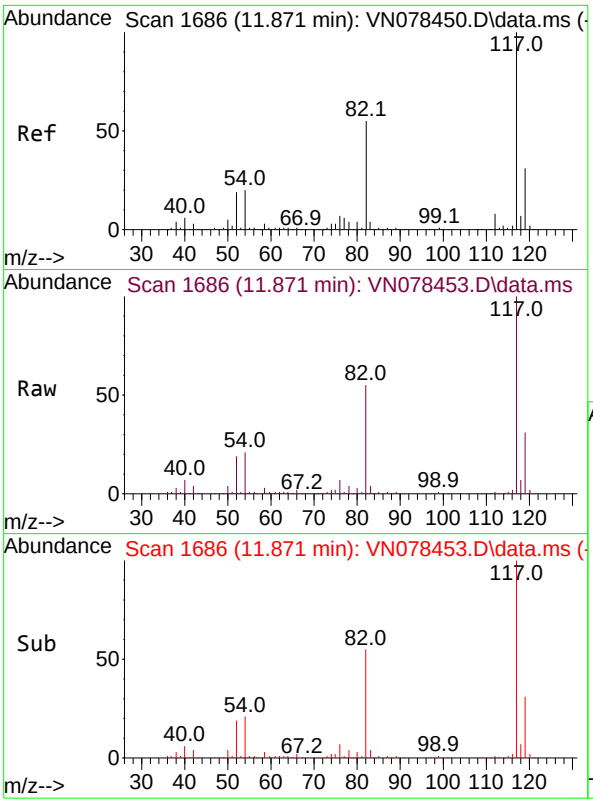


#62
4-Bromofluorobenzene
Concen: 4.654 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 95 Resp: 31442

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	143.8
176	76.6	0.0	135.8

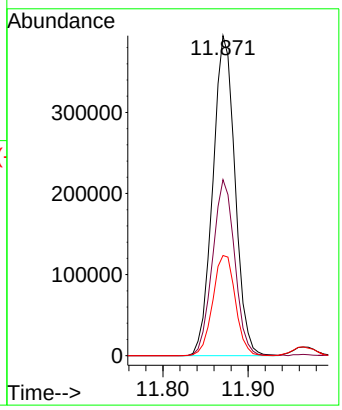




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:117 Resp: 71614

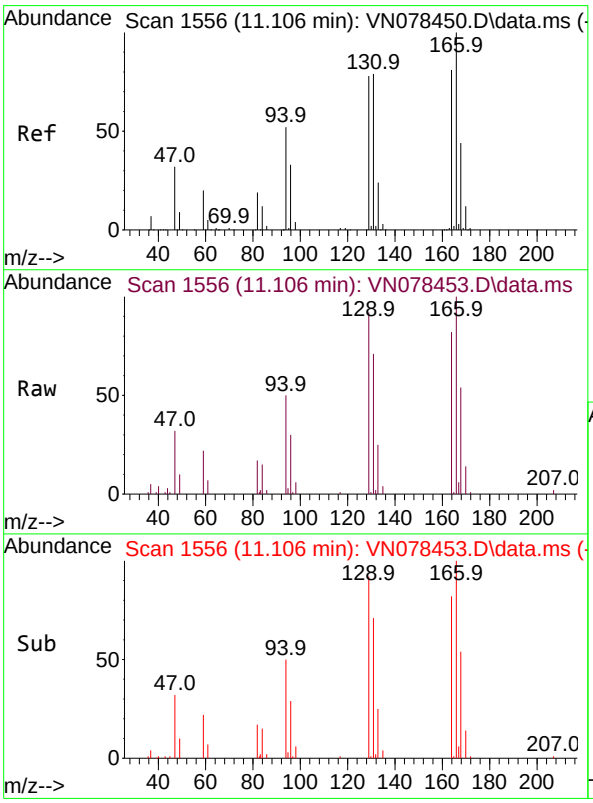
Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.0	66.0
119	31.3	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

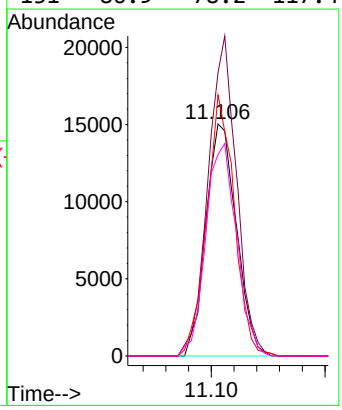
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

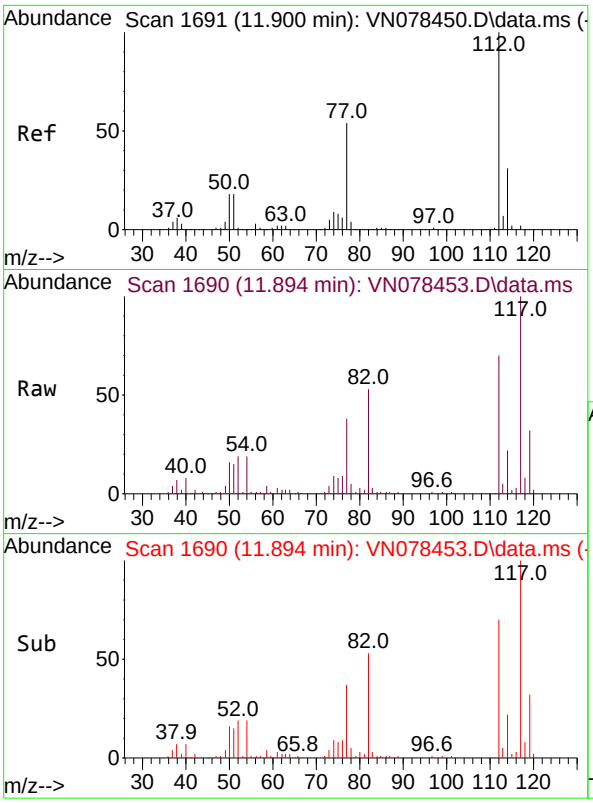


#64
Tetrachloroethene
Concen: 5.200 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:164 Resp: 27995

Ion	Ratio	Lower	Upper
164	100		
166	122.3	101.4	152.0
129	112.5	82.4	123.6
131	86.9	78.2	117.4

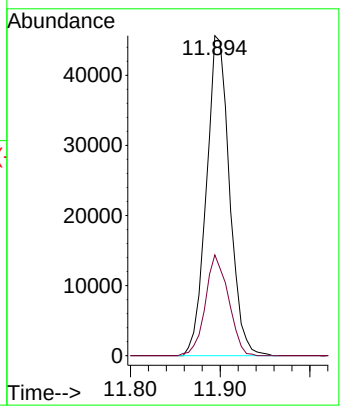




#65
Chlorobenzene
Concen: 5.094 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:112 Resp: 8153

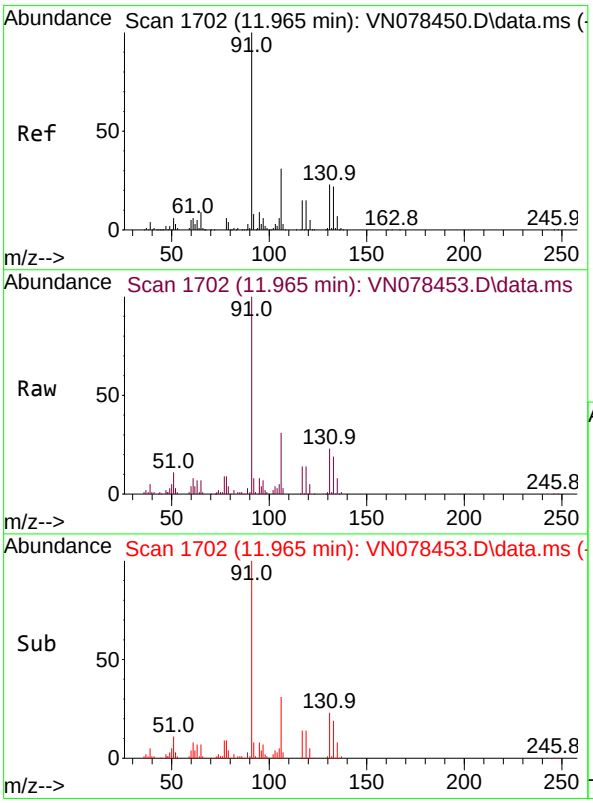
Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

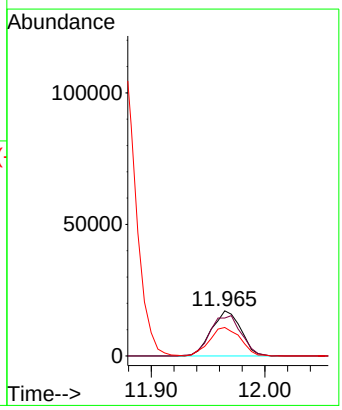
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

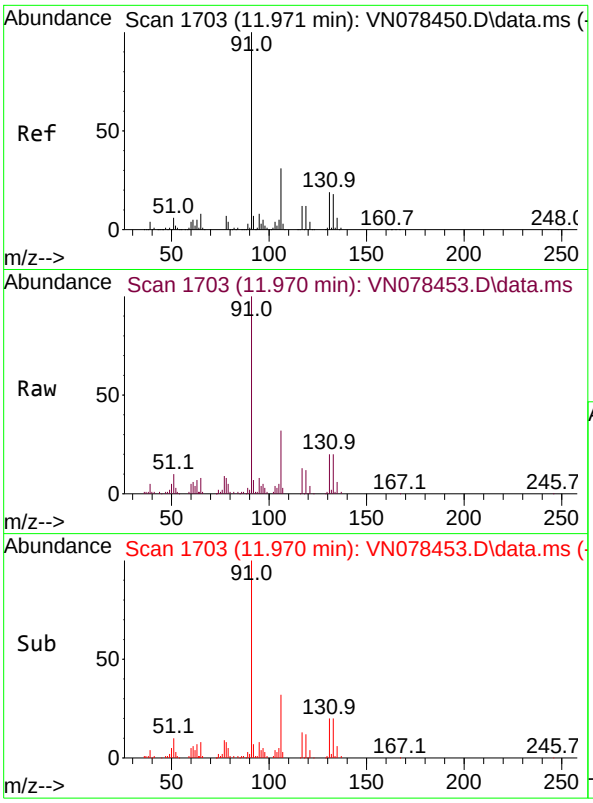


#66
1,1,1,2-Tetrachloroethane
Concen: 5.027 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:131 Resp: 30954

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.4	139.1
119	66.1	34.1	102.2

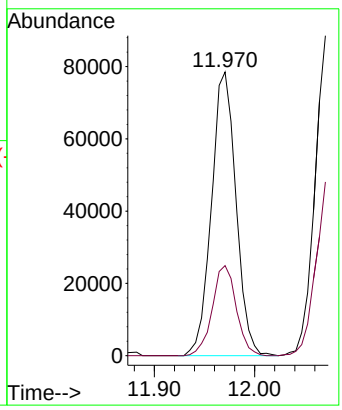




#67
Ethyl Benzene
Concen: 4.923 ug/l
RT: 11.970 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 91 Resp: 13321

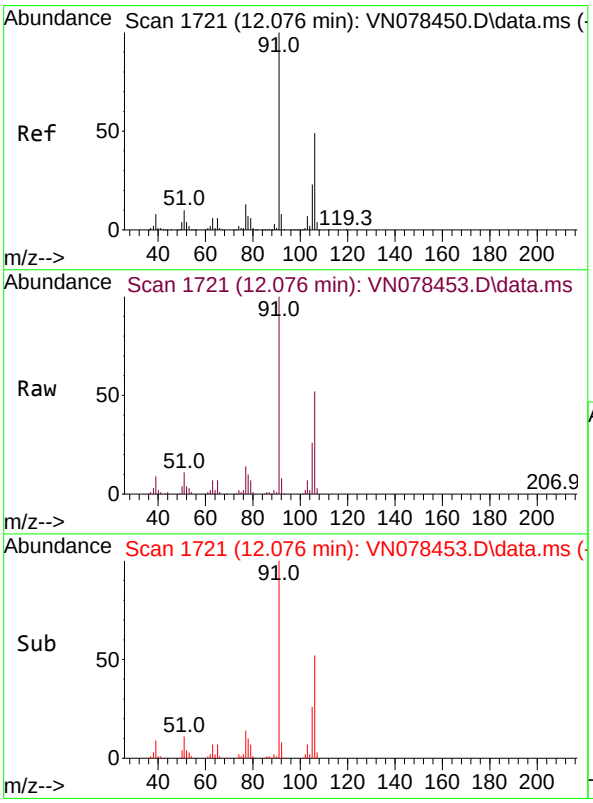
Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

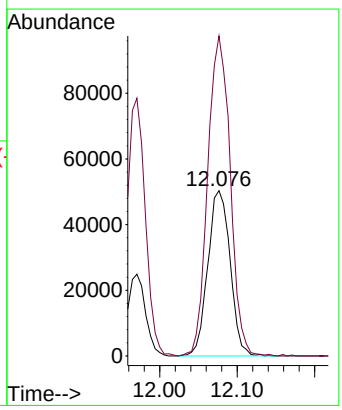
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

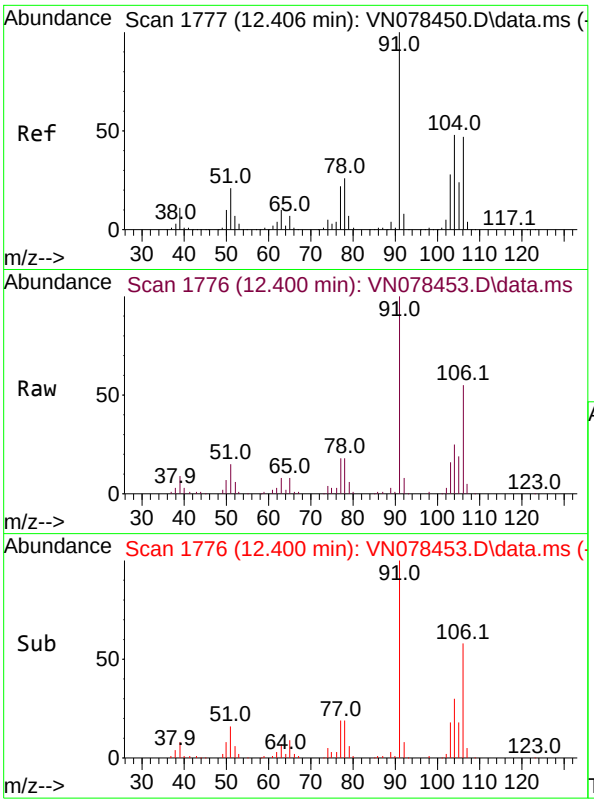


#68
m/p-Xylenes
Concen: 10.078 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:106 Resp: 100821

Ion	Ratio	Lower	Upper
106	100		
91	195.3	159.6	239.4





#69
o-Xylene
Concen: 4.860 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

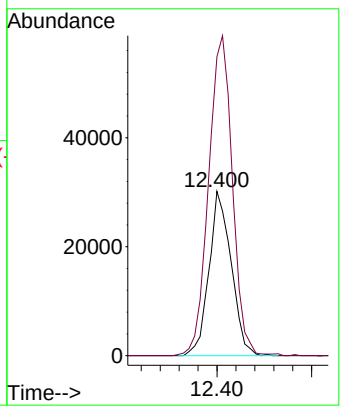
Tgt Ion:106 Resp: 4910

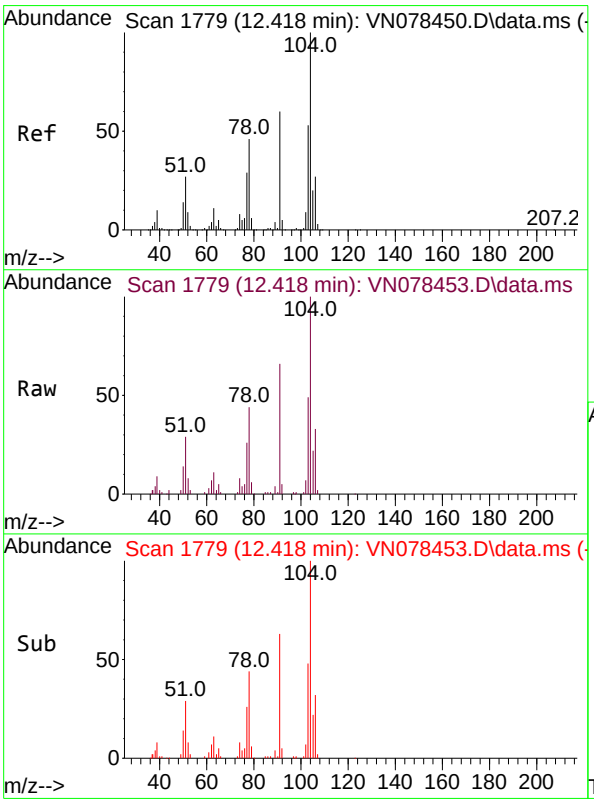
Ion	Ratio	Lower	Upper
106	100		
91	208.8	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

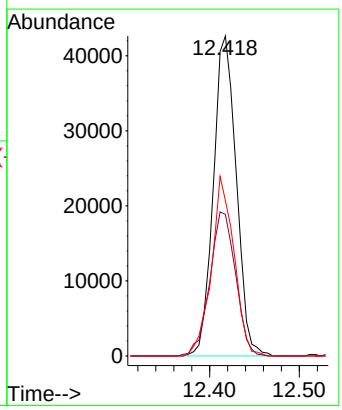


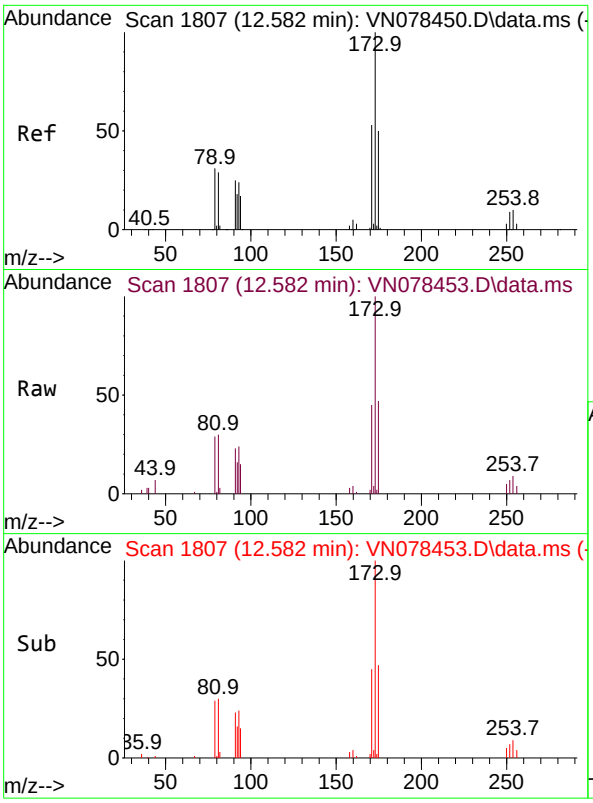


#70
Styrene
Concen: 4.786 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:104 Resp: 75656

Ion	Ratio	Lower	Upper
104	100		
78	50.5	39.5	59.3
103	55.2	43.2	64.8

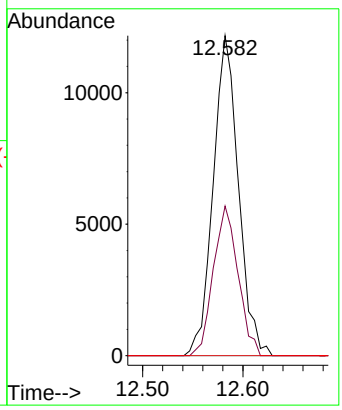




#71
Bromoform
Concen: 5.103 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:173 Resp: 2128

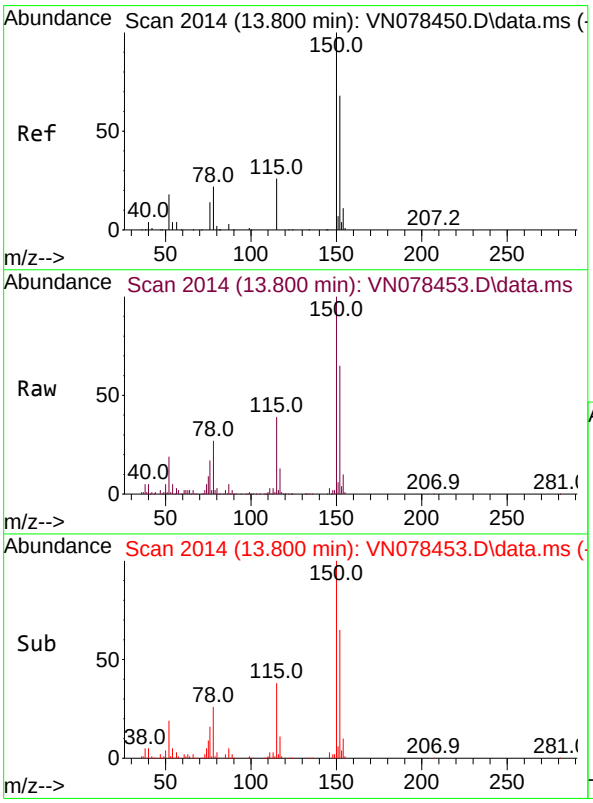
Ion	Ratio	Lower	Upper
173	100		
175	45.8	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

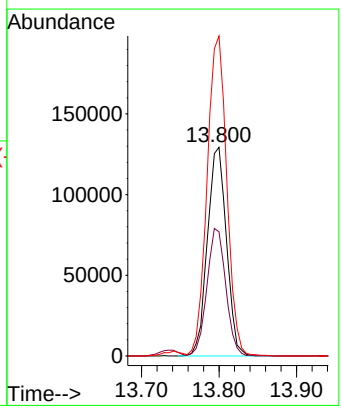
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

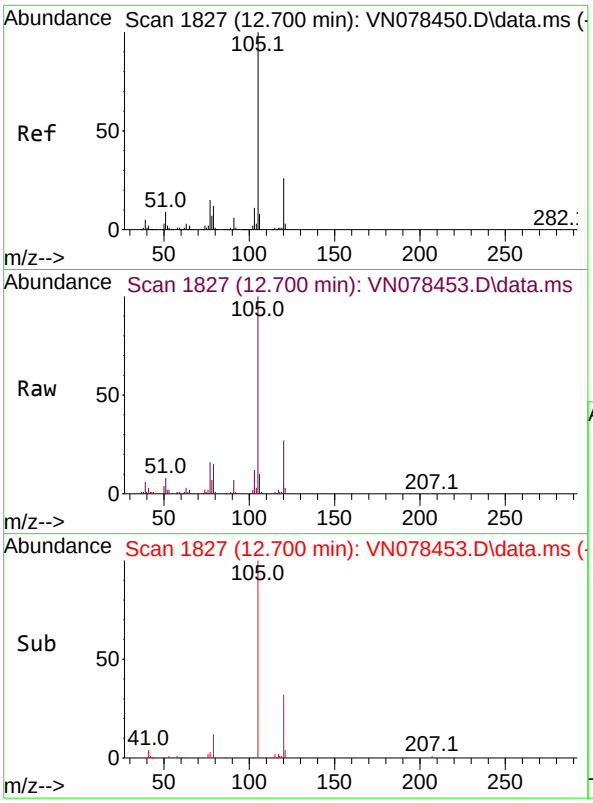


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:152 Resp: 221100

Ion	Ratio	Lower	Upper
152	100		
115	60.5	32.3	96.8
150	158.3	0.0	355.8

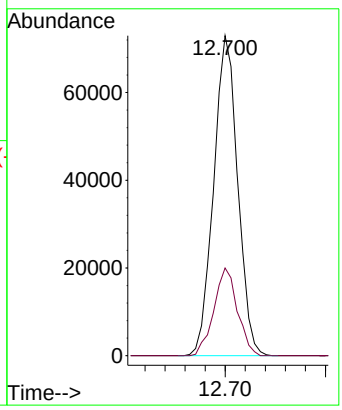




#73
Isopropylbenzene
Concen: 5.832 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:105 Resp: 12115

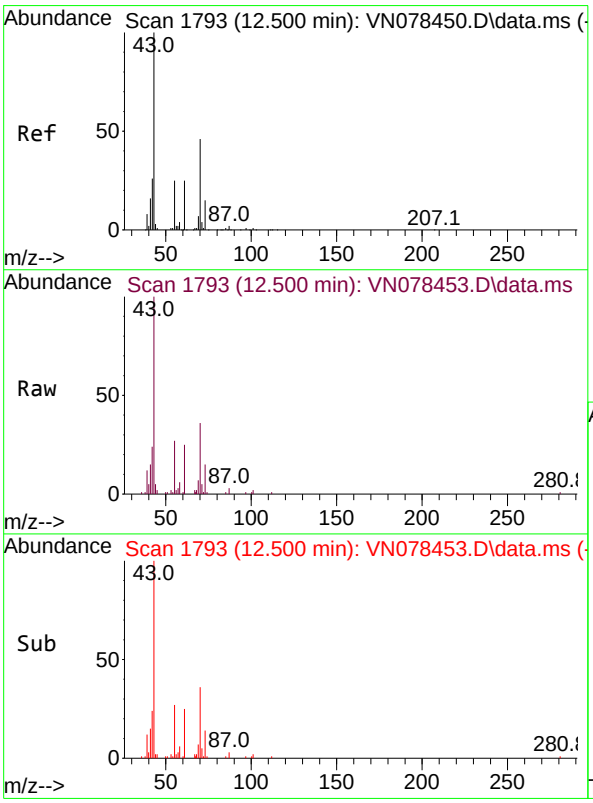
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

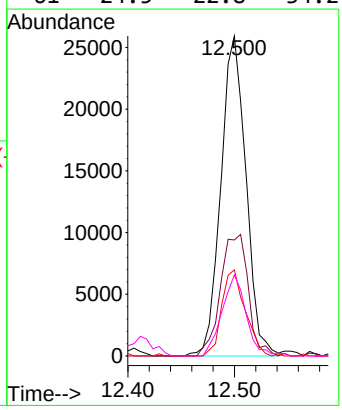
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

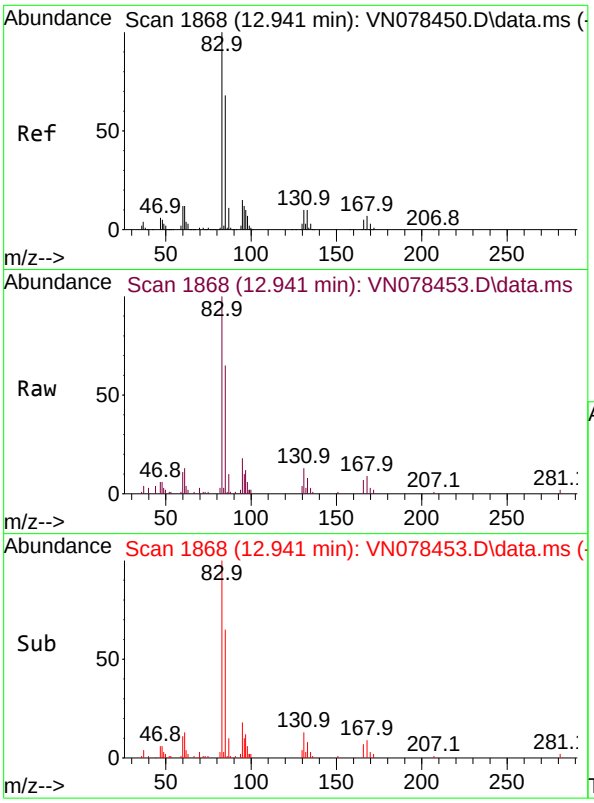


#74
N-amyl acetate
Concen: 5.927 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 43 Resp: 42438

Ion	Ratio	Lower	Upper
43	100		
70	42.1	43.4	65.2#
55	25.3	21.4	32.0
61	24.5	22.8	34.2

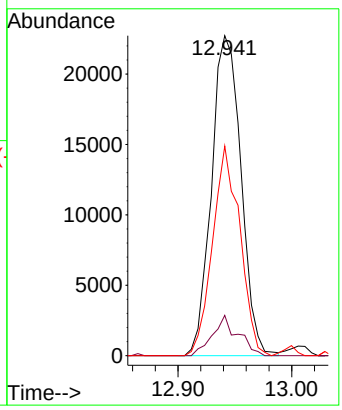




#75
1,1,2,2-Tetrachloroethane
Concen: 4.237 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 83 Resp: 4103

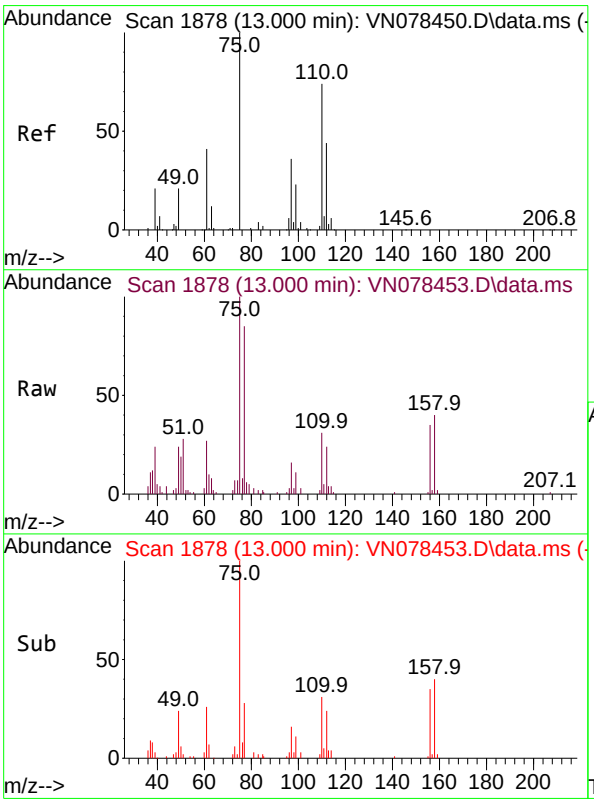
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.0	15.0
85	60.7	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

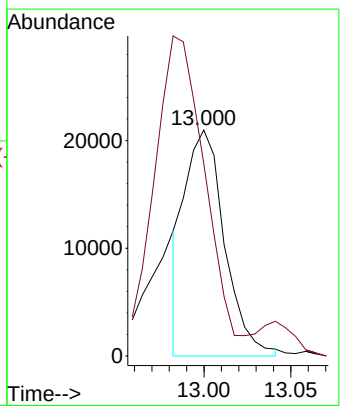
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

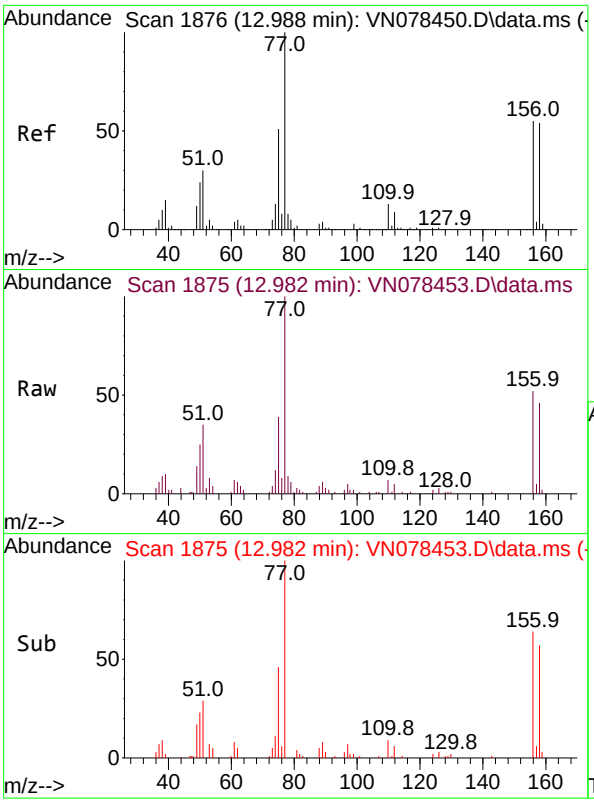


#76
1,2,3-Trichloropropane
Concen: 6.284 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 33547

Ion	Ratio	Lower	Upper
75	100		
77	181.7	84.5	253.5

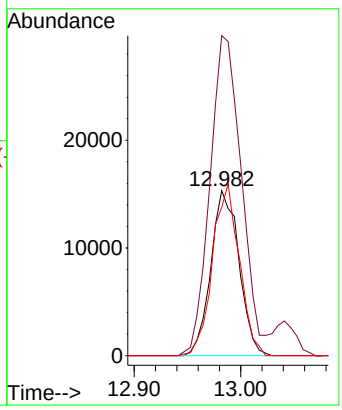




#77
Bromobenzene
Concen: 4.828 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:156 Resp: 2811

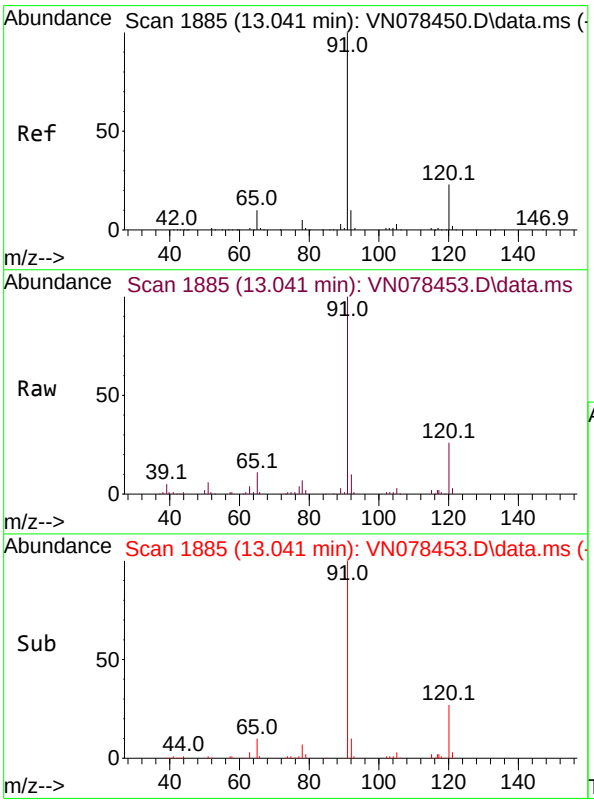
Ion	Ratio	Lower	Upper
156	100		
77	216.8	107.7	323.3
158	99.3	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

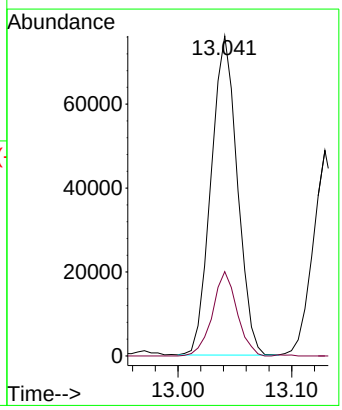
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

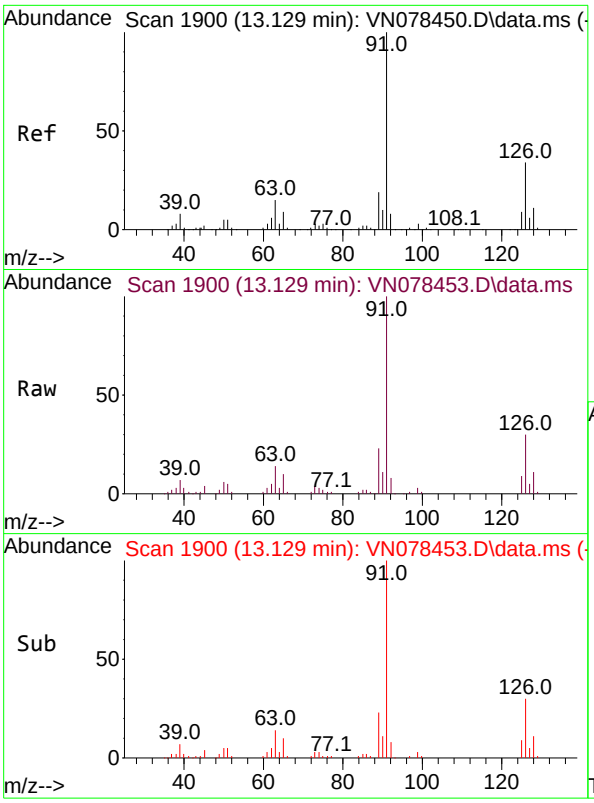


#78
n-propylbenzene
Concen: 5.500 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 91 Resp: 122199

Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.5	34.4

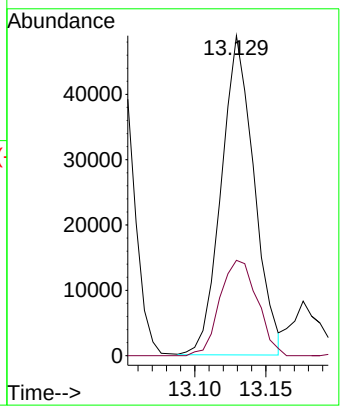




#79
2-Chlorotoluene
Concen: 5.389 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 91 Resp: 7843

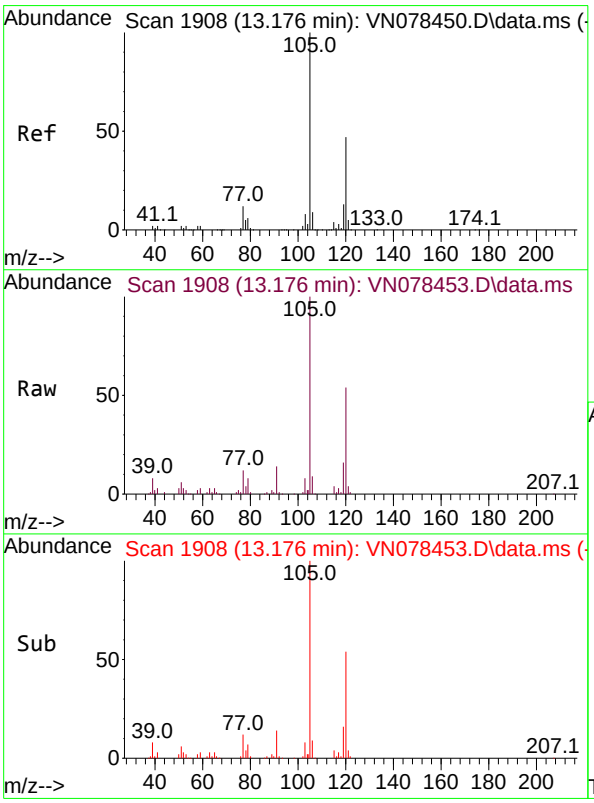
Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

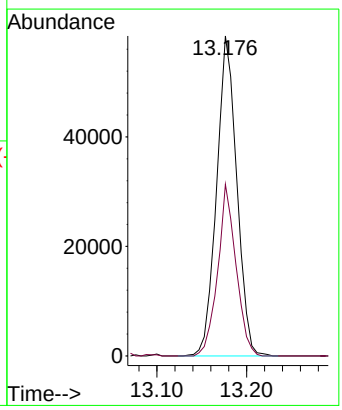
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

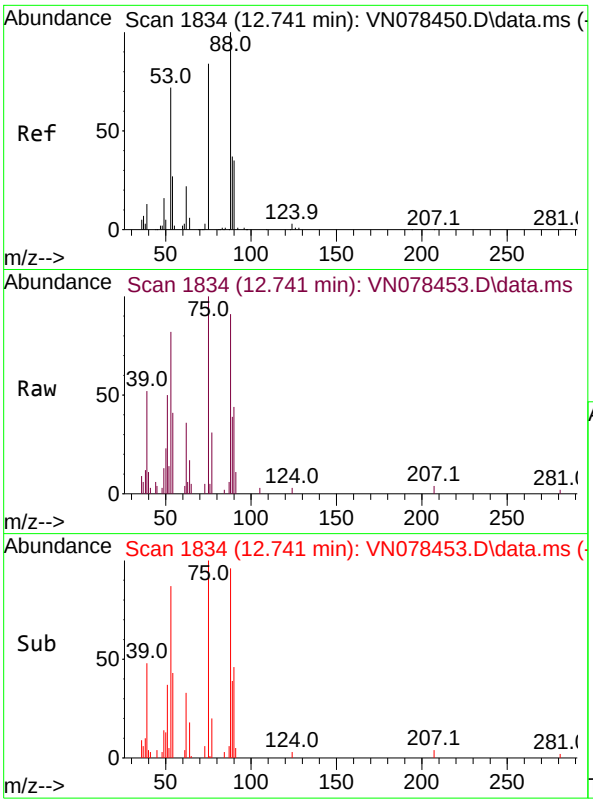


#80
1,3,5-Trimethylbenzene
Concen: 5.555 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:105 Resp: 91188

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.1	72.3

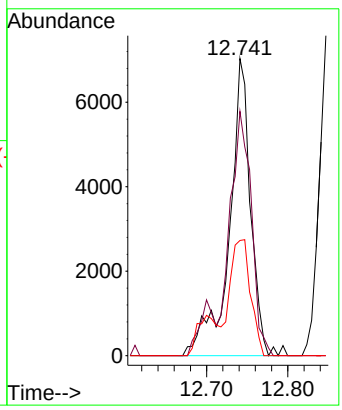




#81
trans-1,4-Dichloro-2-butene
Concen: 6.287 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 1278

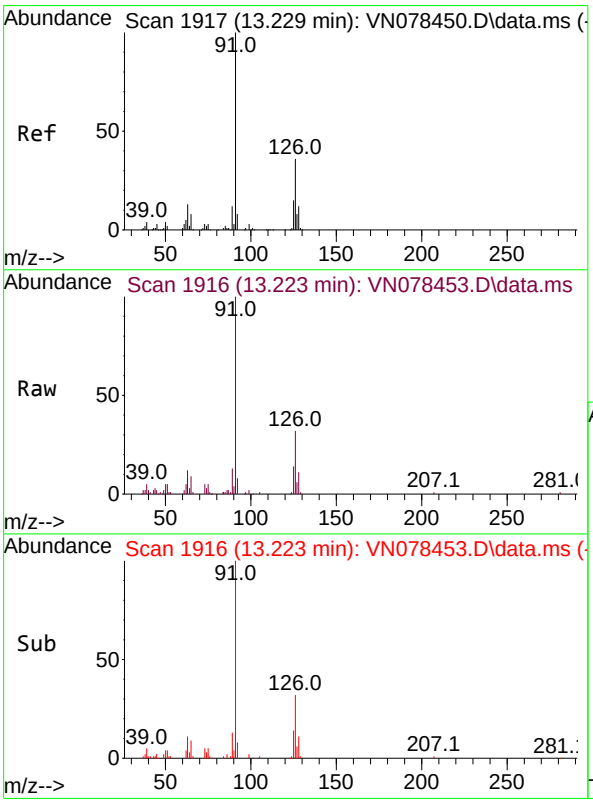
Ion	Ratio	Lower	Upper
75	100		
53	82.0	67.4	101.2
89	37.7	38.8	58.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

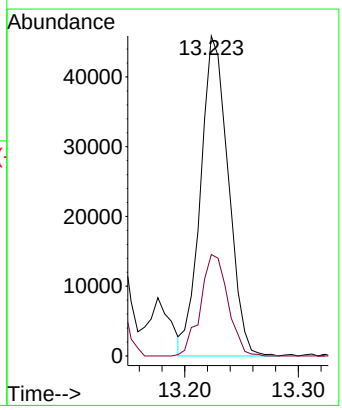
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

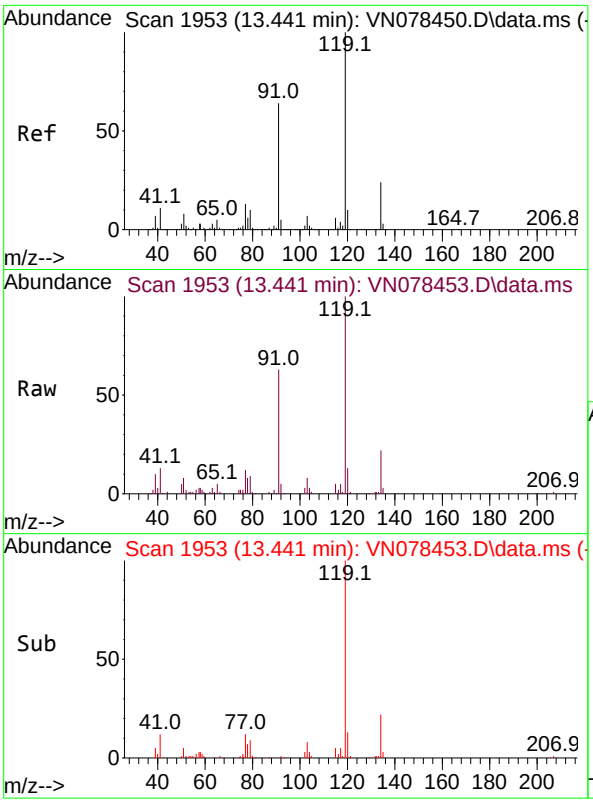


#82
4-Chlorotoluene
Concen: 5.729 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 91 Resp: 77772

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.7	50.0

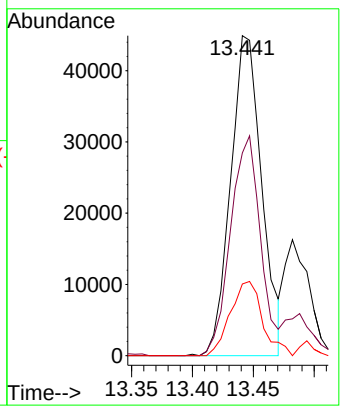




#83
tert-Butylbenzene
Concen: 5.743 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:119 Resp: 8003

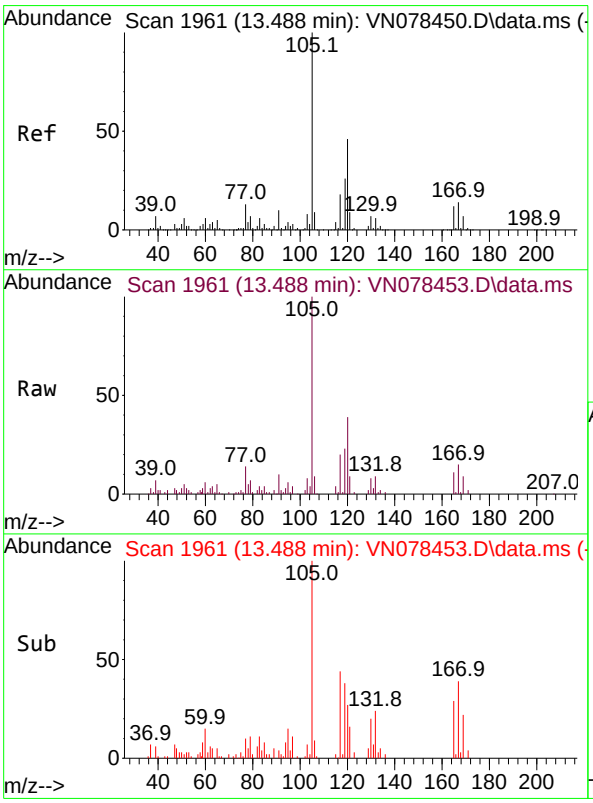
Ion	Ratio	Lower	Upper
119	100		
91	66.0	33.9	101.7
134	23.9	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

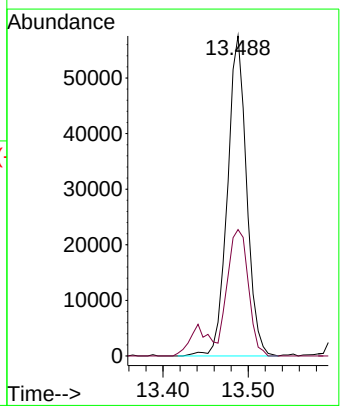
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

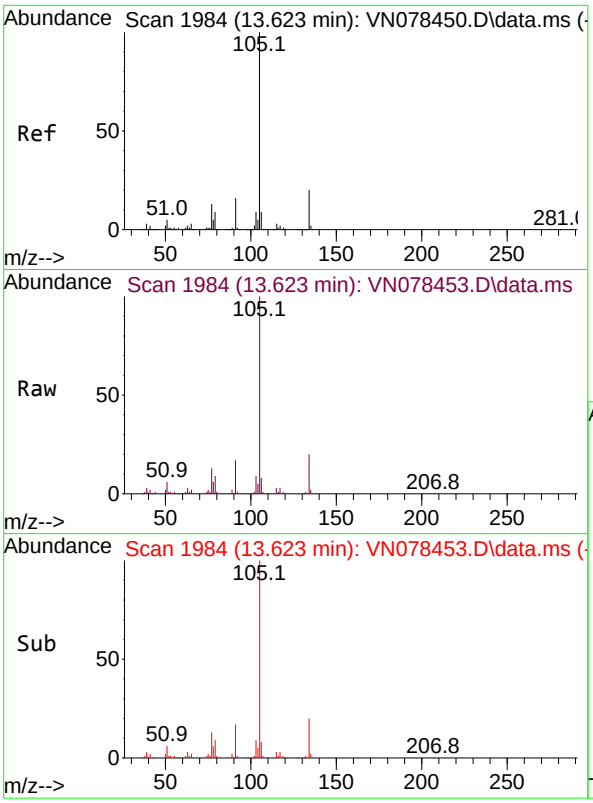


#84
1,2,4-Trimethylbenzene
Concen: 5.640 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:105 Resp: 89931

Ion	Ratio	Lower	Upper
105	100		
120	42.8	22.0	66.0





#85
sec-Butylbenzene
Concen: 5.791 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

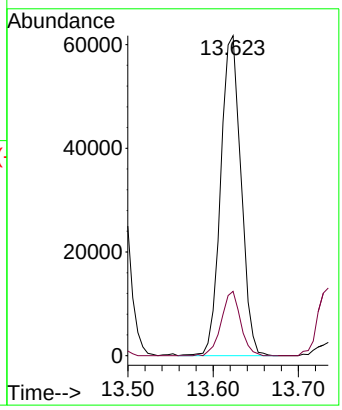
Tgt Ion:105 Resp: 10201

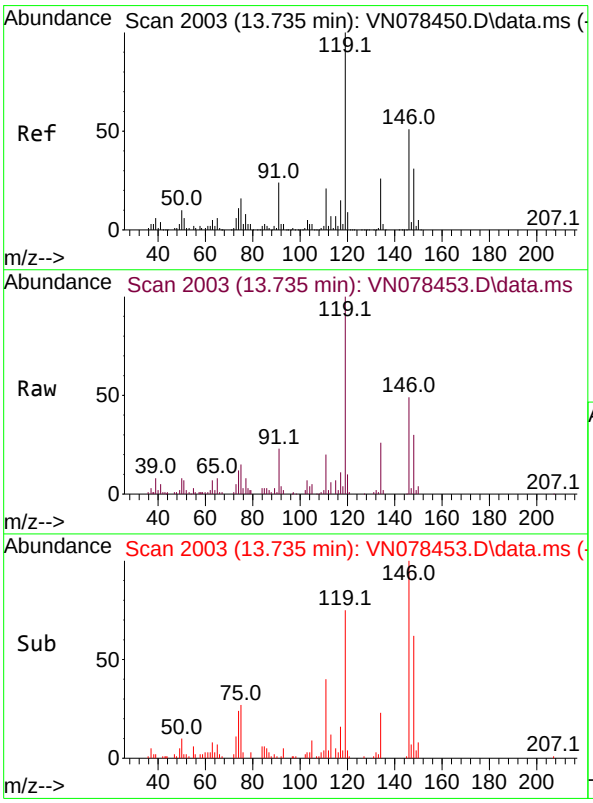
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

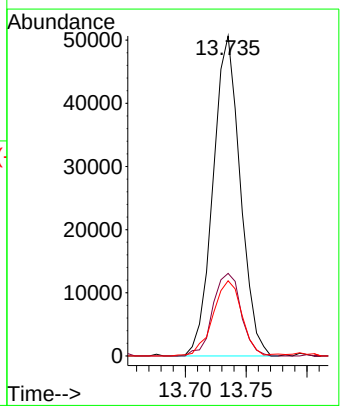


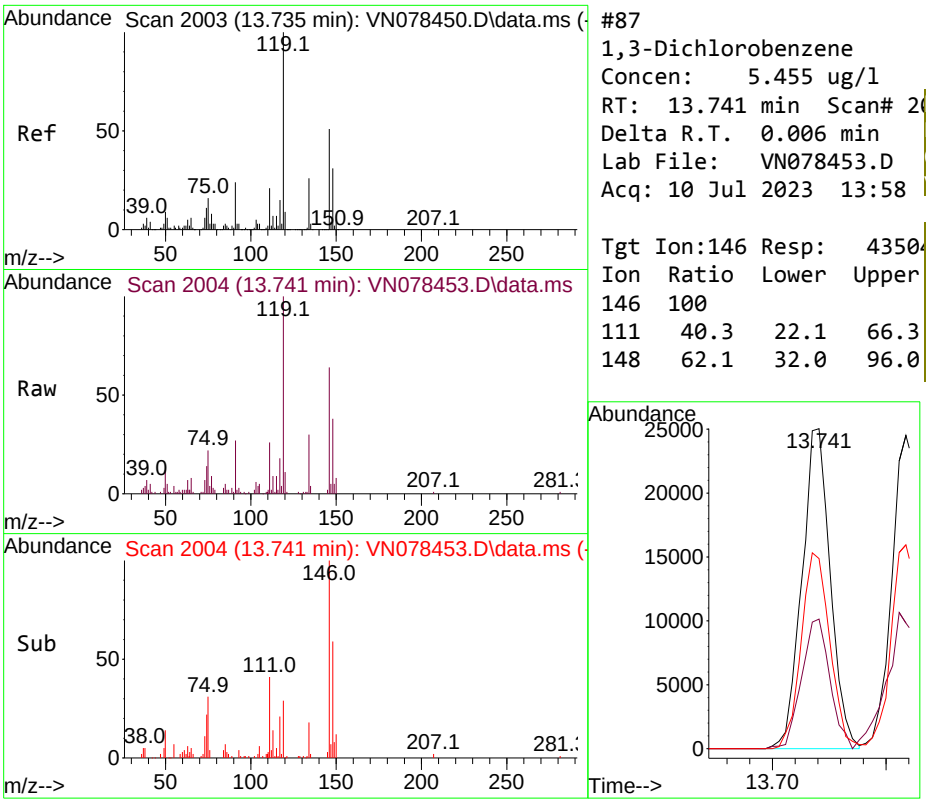


#86
p-Isopropyltoluene
Concen: 5.572 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:119 Resp: 78812

Ion	Ratio	Lower	Upper
119	100		
134	26.8	12.6	37.8
91	25.0	12.4	37.2





#87
1,3-Dichlorobenzene
Concen: 5.455 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

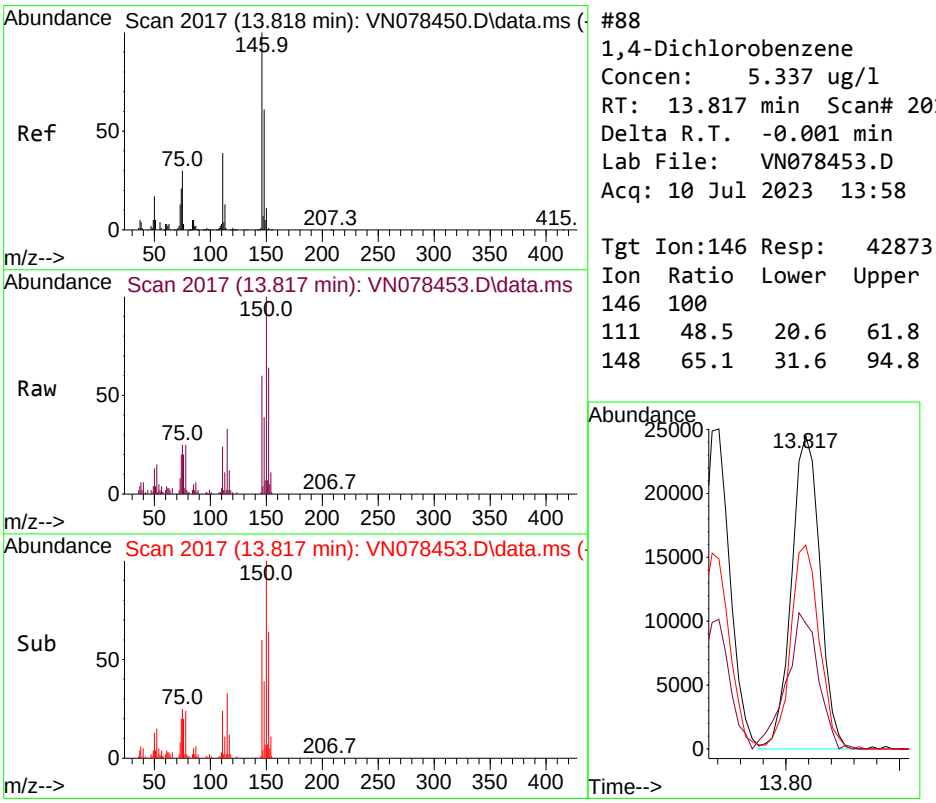
Tgt Ion:146 Resp: 4350

Ion	Ratio	Lower	Upper
146	100		
111	40.3	22.1	66.3
148	62.1	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

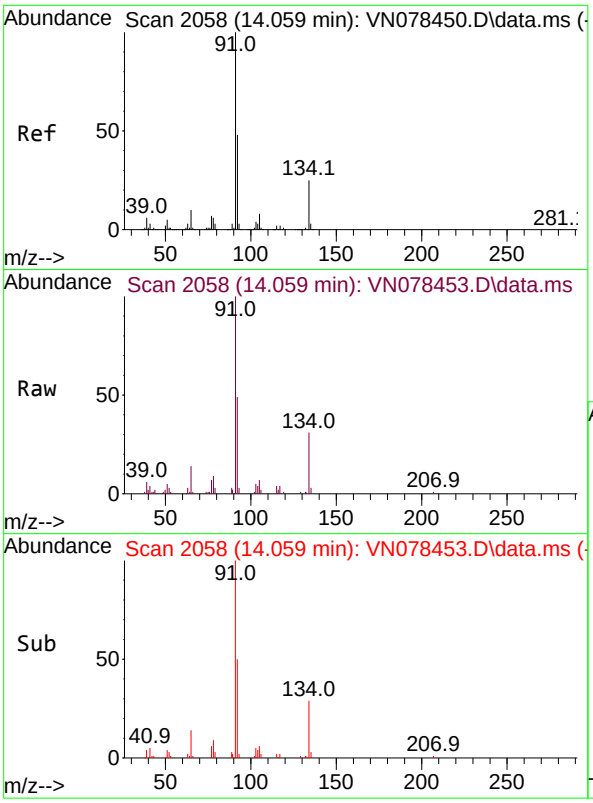
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#88
1,4-Dichlorobenzene
Concen: 5.337 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:146 Resp: 42873

Ion	Ratio	Lower	Upper
146	100		
111	48.5	20.6	61.8
148	65.1	31.6	94.8



#89
n-Butylbenzene
Concen: 5.581 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

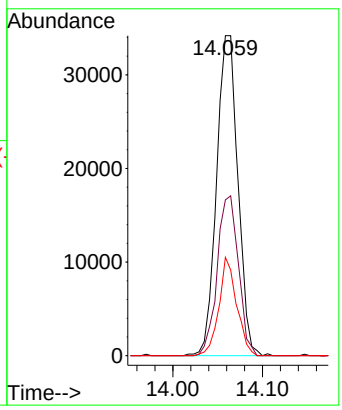
Tgt Ion: 91 Resp: 5648

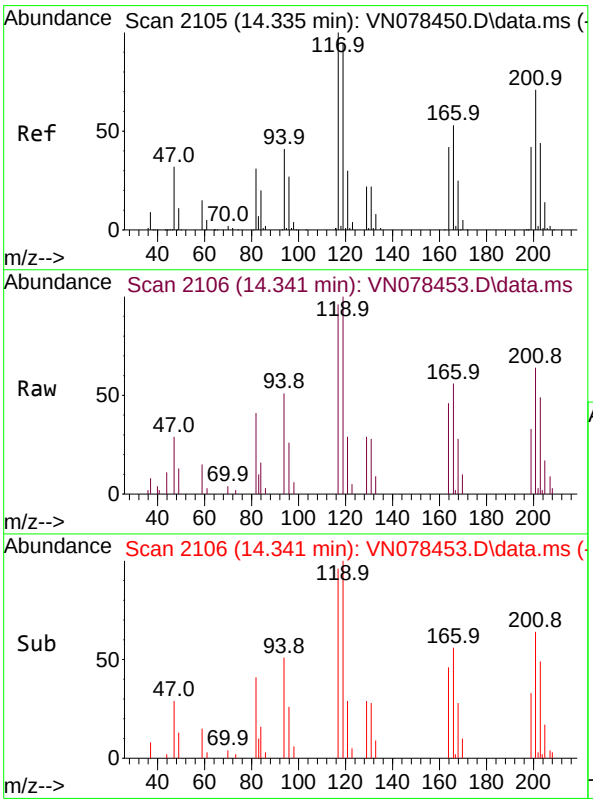
Ion	Ratio	Lower	Upper
91	100		
92	49.6	26.4	79.0
134	25.6	12.6	37.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

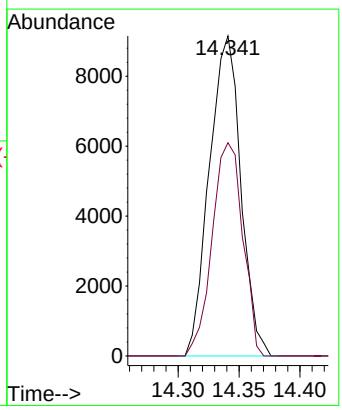


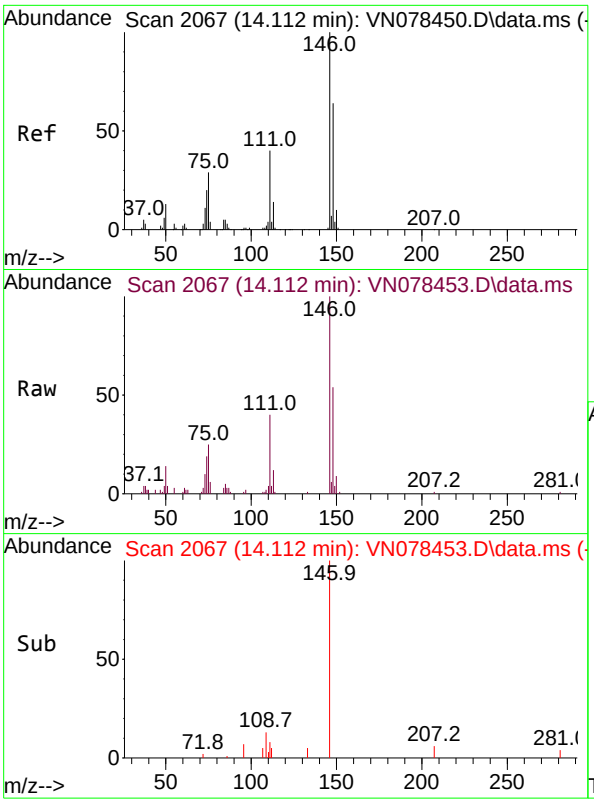


#90
Hexachloroethane
Concen: 5.620 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:117 Resp: 16493

Ion	Ratio	Lower	Upper
117	100		
201	64.8	29.3	88.0

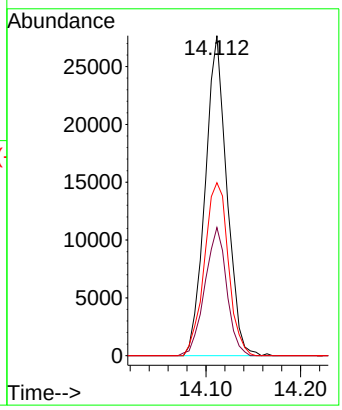




#91
1,2-Dichlorobenzene
Concen: 5.529 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:146 Resp: 4388

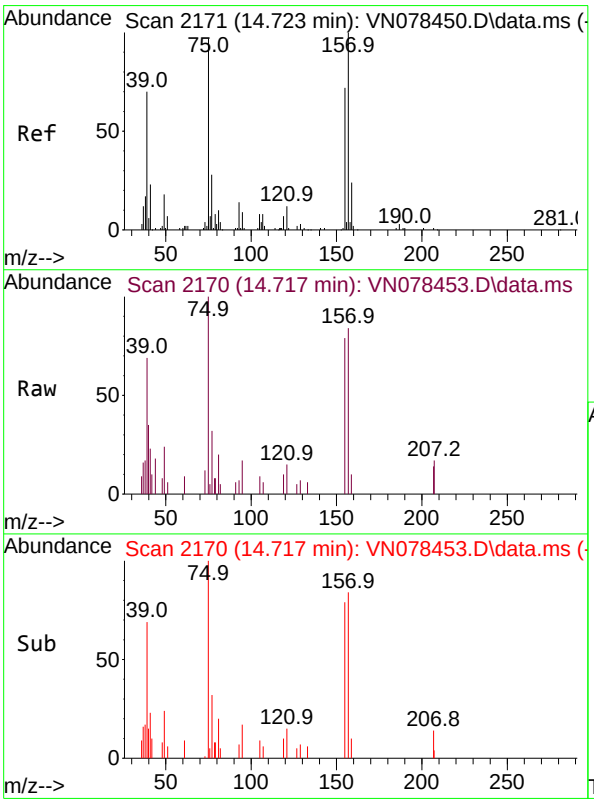
Ion	Ratio	Lower	Upper
146	100		
111	40.4	22.0	66.0
148	60.0	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

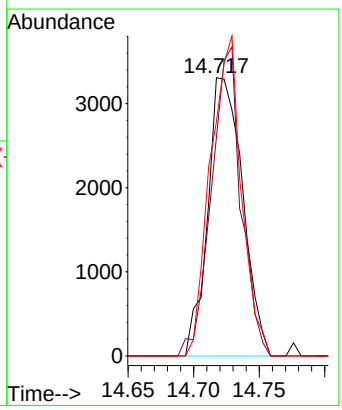
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

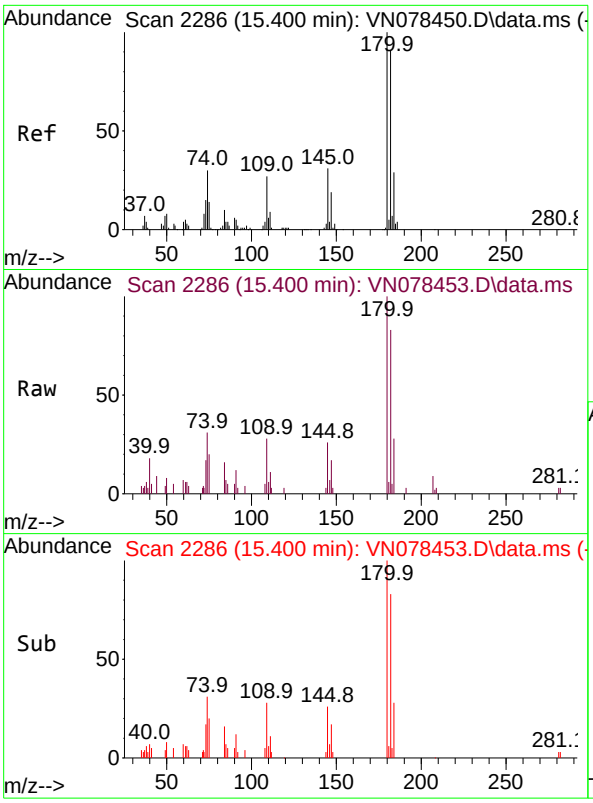


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.407 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion: 75 Resp: 6125

Ion	Ratio	Lower	Upper
75	100		
155	94.5	39.1	117.2
157	102.0	50.3	150.9

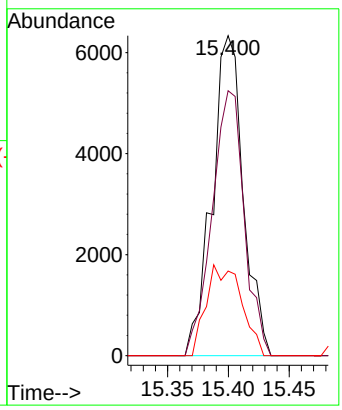




#93
1,2,4-Trichlorobenzene
Concen: 4.472 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:180 Resp: 1132

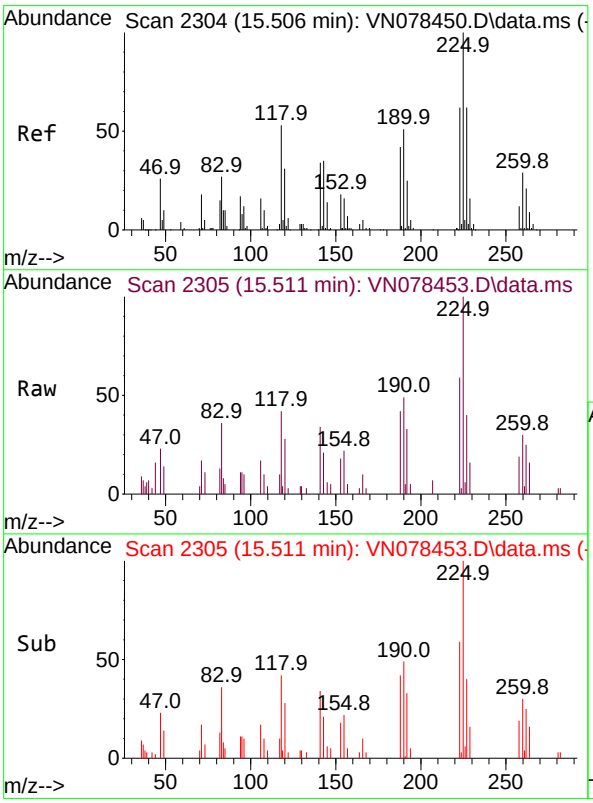
Ion	Ratio	Lower	Upper
180	100		
182	85.1	46.1	138.2
145	31.9	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

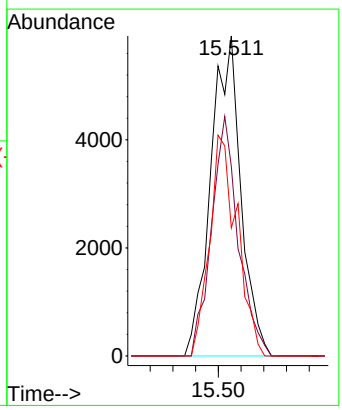
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

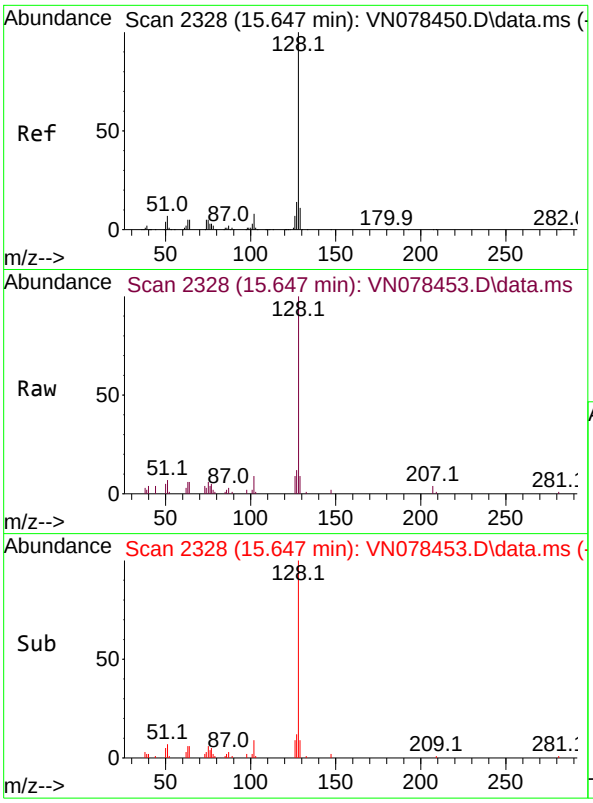


#94
Hexachlorobutadiene
Concen: 4.526 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.005 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:225 Resp: 10864

Ion	Ratio	Lower	Upper
225	100		
223	66.9	31.3	93.8
227	63.5	31.9	95.9

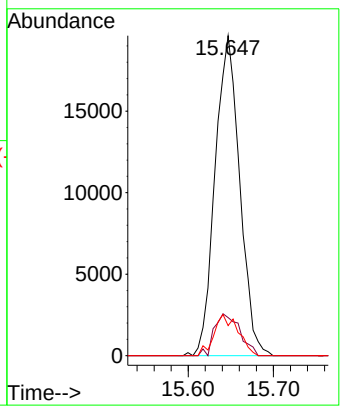




#95
Naphthalene
Concen: 4.555 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:128 Resp: 3944

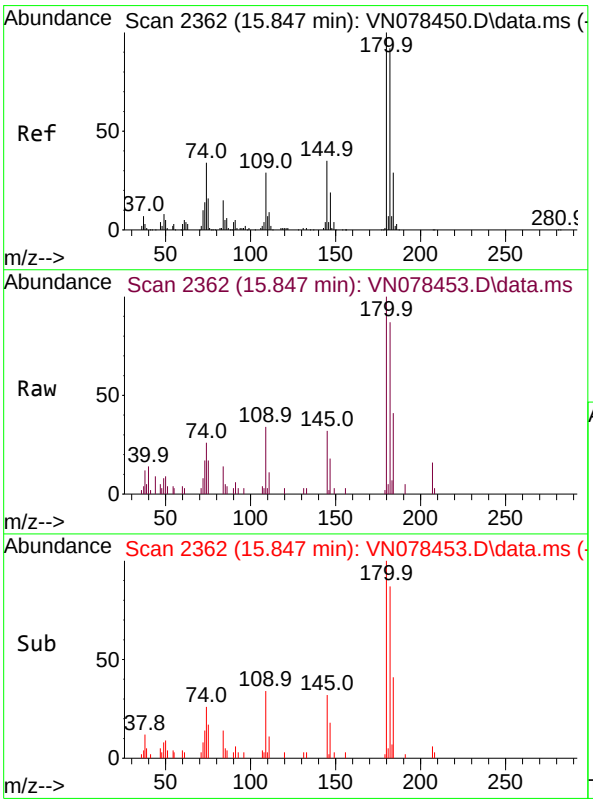
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.0	15.0
129	12.6	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

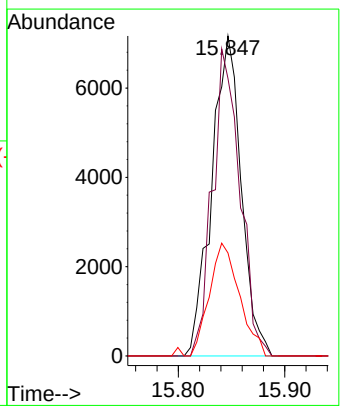
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 4.756 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078453.D
Acq: 10 Jul 2023 13:58

Tgt Ion:180 Resp: 13854

Ion	Ratio	Lower	Upper
180	100		
182	88.7	46.2	138.6
145	35.8	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078454.D
Acq On : 10 Jul 2023 14:46
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 16:08:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:08:18 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	465120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	818145	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	672181	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	177944	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	6051	1.061	ug/l	98
3) Chloromethane	2.371	50	7605	1.227	ug/l	90
4) Vinyl Chloride	2.518	62	9060	1.130	ug/l #	79
6) Chloroethane	3.136	64	6985	1.289	ug/l	89
7) Trichlorofluoromethane	3.506	101	10631	1.109	ug/l #	76
8) Diethyl Ether	3.965	74	3469	1.086	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.383	101	5297m	1.044	ug/l	
12) 1,1-Dichloroethene	4.353	96	5073	1.034	ug/l	88
14) Allyl chloride	5.036	41	6513	0.971	ug/l #	32
15) Acrylonitrile	5.735	53	11742	4.833	ug/l #	84
16) Acetone	4.453	43	11033	5.680	ug/l	98
17) Carbon Disulfide	4.724	76	16837	1.186	ug/l #	89
18) Methyl Acetate	5.053	43	9440	1.148	ug/l #	83
19) Methyl tert-butyl Ether	5.812	73	15824	0.979	ug/l	99
20) Methylene Chloride	5.288	84	8757	1.284	ug/l	89
21) trans-1,2-Dichloroethene	5.794	96	5678	1.027	ug/l #	82
22) Diisopropyl ether	6.694	45	13689	0.912	ug/l #	90
23) Vinyl Acetate	6.612	43	40842	4.278	ug/l	100
24) 1,1-Dichloroethane	6.588	63	10638	1.051	ug/l #	93
25) 2-Butanone	7.500	43	15451	5.053	ug/l #	82
26) 2,2-Dichloropropane	7.512	77	8972m	1.084	ug/l	
27) cis-1,2-Dichloroethene	7.494	96	6309	0.986	ug/l	91
28) Bromochloromethane	7.812	49	5279	1.108	ug/l #	74
29) Tetrahydrofuran	7.853	42	9965	4.967	ug/l #	81
30) Chloroform	7.982	83	10434	0.990	ug/l	90
32) 1,1,1-Trichloroethane	8.177	97	8816	0.933	ug/l #	51
36) 1,1-Dichloropropene	8.376	75	8420	1.050	ug/l	93
37) Ethyl Acetate	7.571	43	6447	0.964	ug/l #	76
38) Carbon Tetrachloride	8.365	117	8814	1.011	ug/l #	76
39) Methylcyclohexane	9.600	83	7452	1.018	ug/l #	74
40) Benzene	8.618	78	23229	0.978	ug/l	96
41) Methacrylonitrile	7.800	41	3220	0.945	ug/l #	73
42) 1,2-Dichloroethane	8.688	62	8541	1.057	ug/l	97
43) Isopropyl Acetate	8.694	43	9229	0.839	ug/l	91
44) Trichloroethene	9.359	130	7499	1.171	ug/l	70
45) 1,2-Dichloropropane	9.623	63	6009	0.999	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078454.D
Acq On : 10 Jul 2023 14:46
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

Quant Time: Jul 10 16:08:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:08:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Dibromomethane	9.718	93	3991	0.942 ug/l	#	84
47) Bromodichloromethane	9.888	83	8476	0.998 ug/l	#	77
48) Methyl methacrylate	9.700	41	4681	0.918 ug/l	#	59
49) 1,4-Dioxane	9.700	88	2332	20.972 ug/l	#	90
51) 4-Methyl-2-Pentanone	10.453	43	28299	4.323 ug/l		90
52) Toluene	10.647	92	14474	0.983 ug/l		92
53) t-1,3-Dichloropropene	10.841	75	7787	0.895 ug/l	#	81
54) cis-1,3-Dichloropropene	10.318	75	7647	0.825 ug/l	#	87
55) 1,1,2-Trichloroethane	11.023	97	5774	0.995 ug/l	#	82
56) Ethyl methacrylate	10.876	69	7066	0.871 ug/l	#	87
57) 1,3-Dichloropropane	11.170	76	9790	0.992 ug/l		96
58) 2-Chloroethyl Vinyl ether	10.170	63	12104	4.188 ug/l		99
59) 2-Hexanone	11.200	43	19374	4.164 ug/l		93
60) Dibromochloromethane	11.370	129	5887	0.919 ug/l		98
61) 1,2-Dibromoethane	11.476	107	5487	0.918 ug/l		99
64) Tetrachloroethene	11.112	164	4574	0.905 ug/l		95
65) Chlorobenzene	11.894	112	15354	1.022 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.964	131	5862	1.014 ug/l	#	60
67) Ethyl Benzene	11.970	91	22338	0.880 ug/l		89
68) m/p-Xylenes	12.076	106	14400	1.534 ug/l		78
69) o-Xylene	12.406	106	8798	0.928 ug/l		89
70) Styrene	12.417	104	11654	0.785 ug/l		94
71) Bromoform	12.576	173	3172	0.810 ug/l	#	81
73) Isopropylbenzene	12.700	105	18287	1.094 ug/l		100
74) N-amyl acetate	12.500	43	6033	1.047 ug/l		90
75) 1,1,2,2-Tetrachloroethane	12.935	83	7660	1.357 ug/l		97
76) 1,2,3-Trichloropropane	13.000	75	4348m	1.012 ug/l		
77) Bromobenzene	12.988	156	5251	1.279 ug/l		99
78) n-propylbenzene	13.041	91	18066	1.010 ug/l		91
79) 2-Chlorotoluene	13.129	91	13932	1.189 ug/l		100
80) 1,3,5-Trimethylbenzene	13.176	105	14027	1.062 ug/l		96
82) 4-Chlorotoluene	13.229	91	11336	1.037 ug/l		94
83) tert-Butylbenzene	13.441	119	12155	1.084 ug/l		87
84) 1,2,4-Trimethylbenzene	13.488	105	12669	0.987 ug/l		93
85) sec-Butylbenzene	13.623	105	14915	1.052 ug/l		94
86) p-Isopropyltoluene	13.729	119	11243	0.988 ug/l		90
87) 1,3-Dichlorobenzene	13.741	146	6600	1.028 ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	7347m	1.136 ug/l		
89) n-Butylbenzene	14.064	91	6783	0.833 ug/l		92
90) Hexachloroethane	14.341	117	3389	0.817 ug/l		92
91) 1,2-Dichlorobenzene	14.111	146	6581	1.030 ug/l		89
92) 1,2-Dibromo-3-Chloropr...	14.735	75	1298	1.395 ug/l		92
93) 1,2,4-Trichlorobenzene	15.394	180	1938	0.951 ug/l		96
94) Hexachlorobutadiene	15.505	225	1773	1.329 ug/l		87
95) Naphthalene	15.647	128	7750	1.112 ug/l	#	92
96) 1,2,3-Trichlorobenzene	15.852	180	2469	1.053 ug/l		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

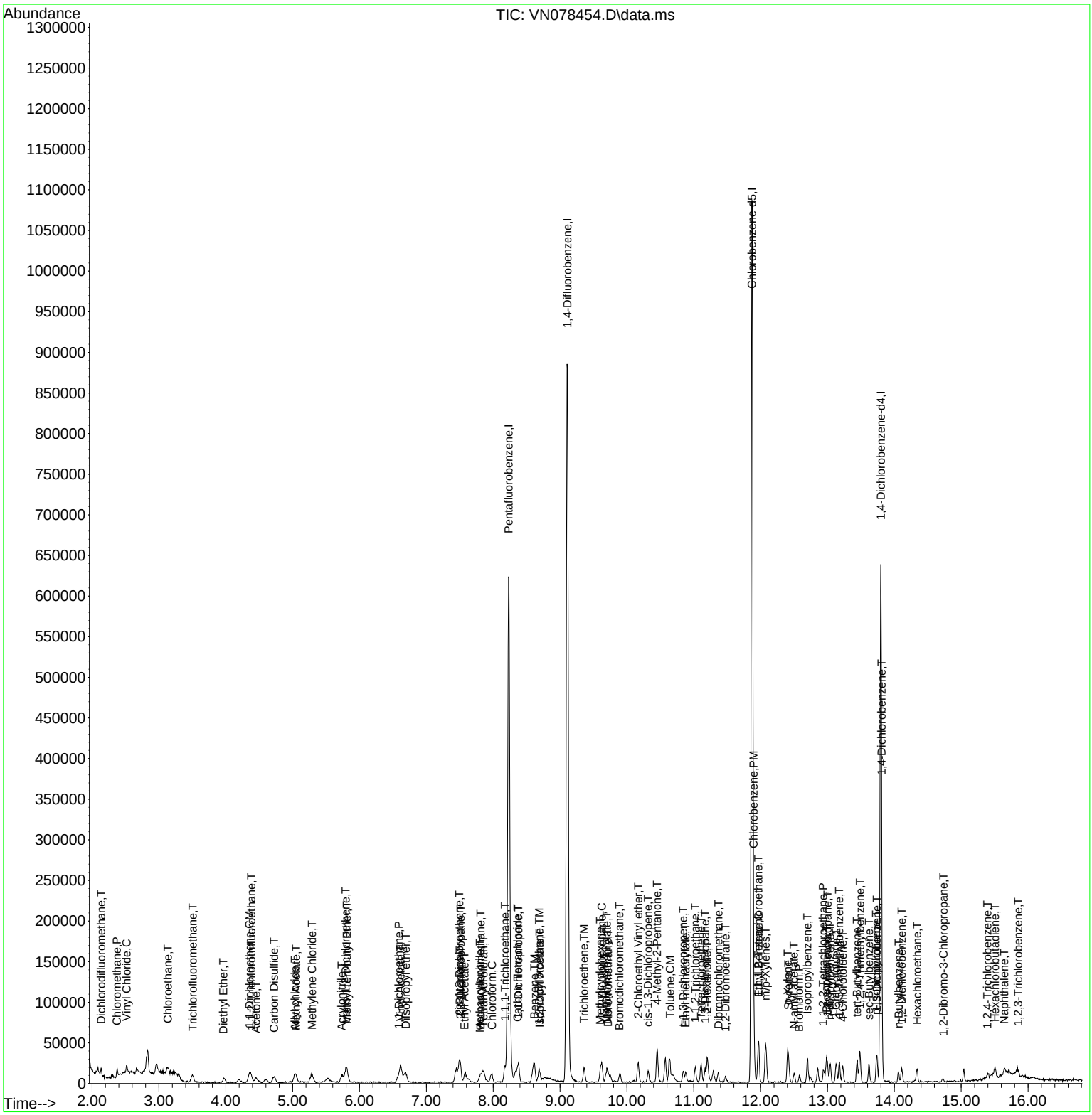
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Data File : VN078454.D
Acq On : 10 Jul 2023 14:46
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

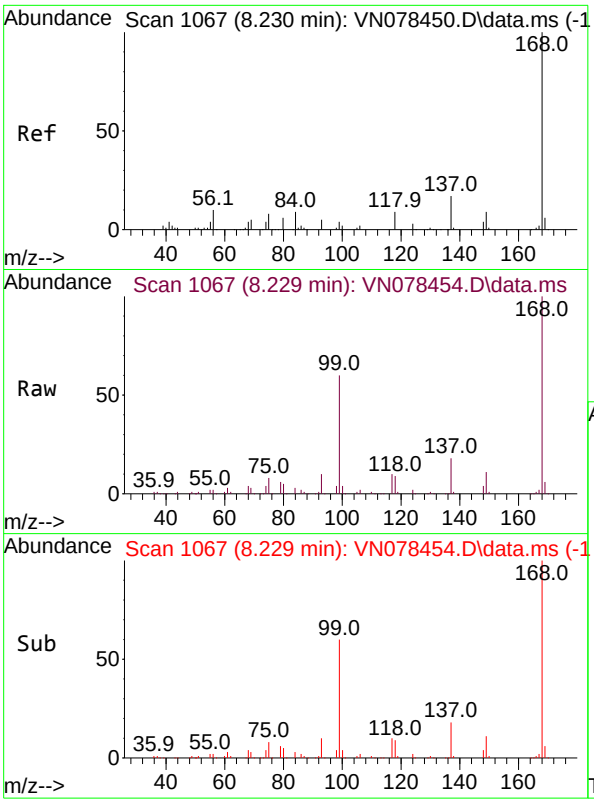
Quant Time: Jul 10 16:08:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:08:18 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

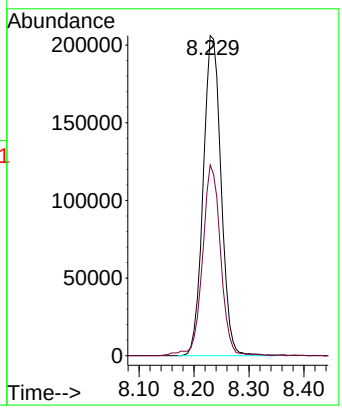




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:168 Resp: 46512

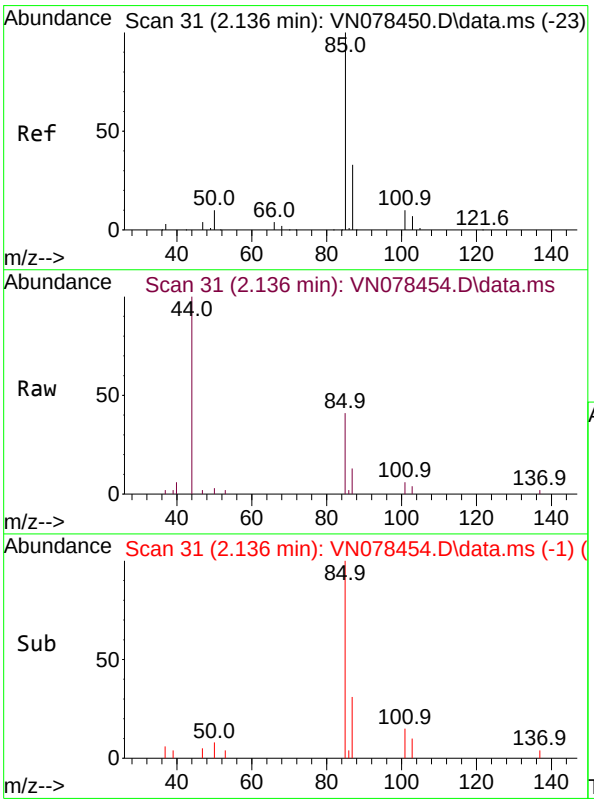
Ion	Ratio	Lower	Upper
168	100		
99	59.4	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

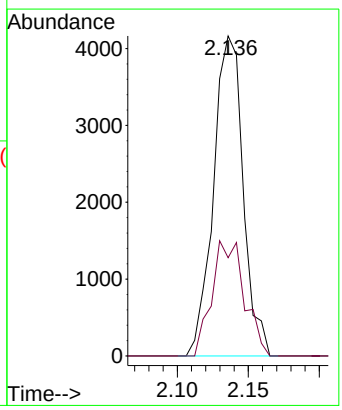
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

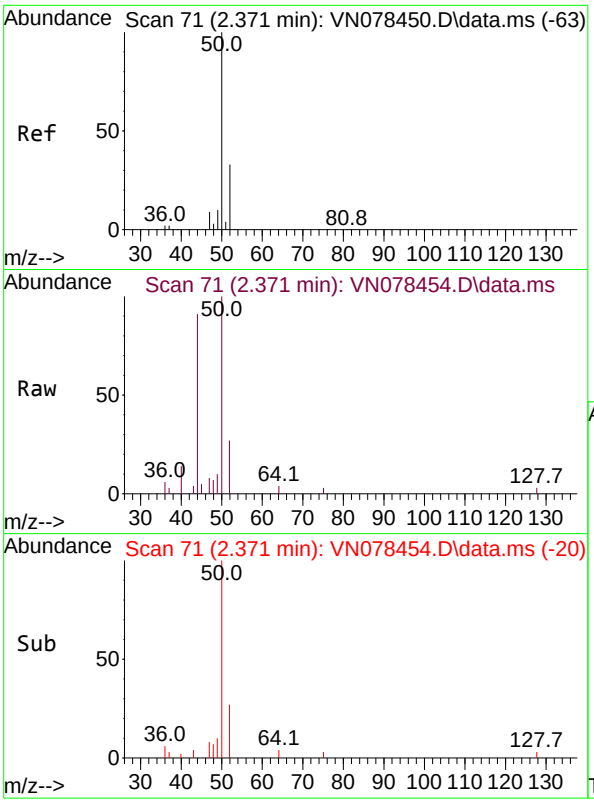


#2
Dichlorodifluoromethane
Concen: 1.061 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 85 Resp: 6051

Ion	Ratio	Lower	Upper
85	100		
87	30.7	15.8	47.4

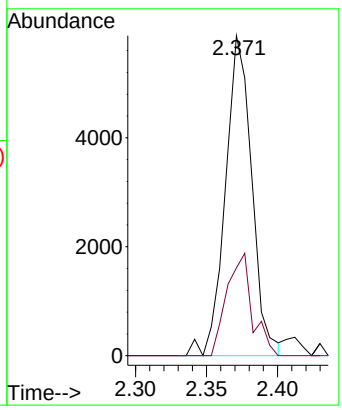




#3
Chloromethane
Concen: 1.227 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 50 Resp: 760

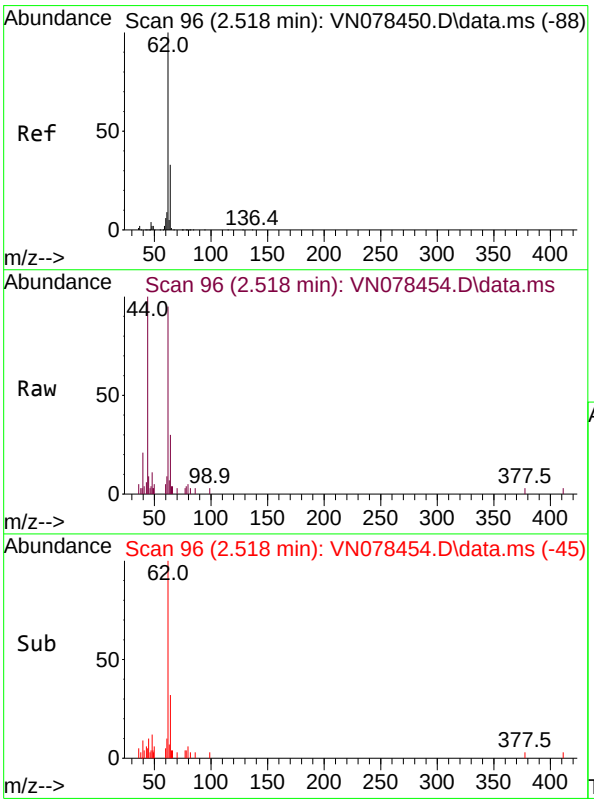
Ion	Ratio	Lower	Upper
50	100		
52	27.4	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

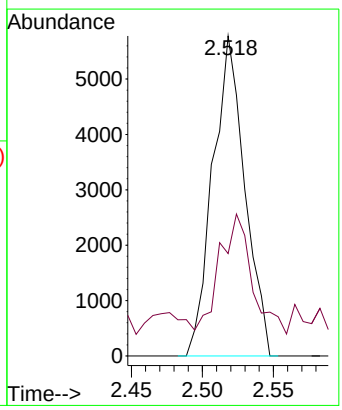
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

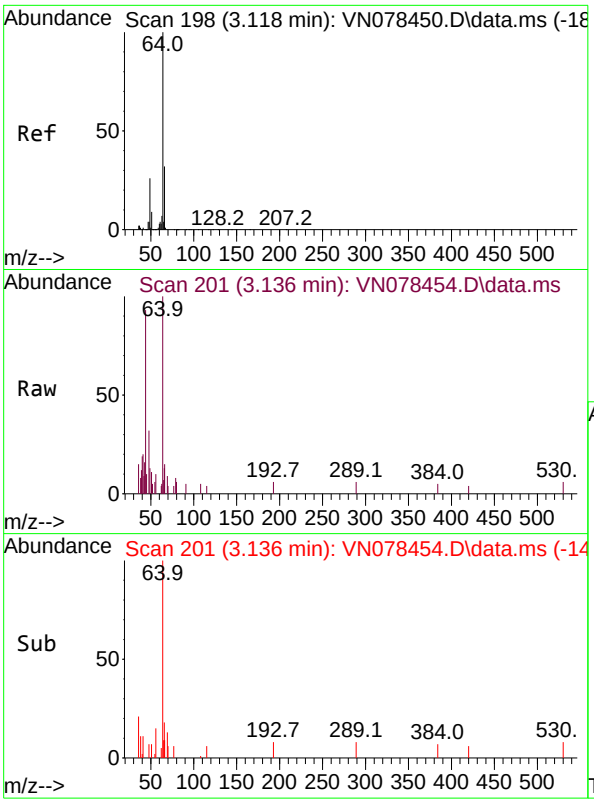


#4
Vinyl Chloride
Concen: 1.130 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 62 Resp: 9060

Ion	Ratio	Lower	Upper
62	100		
64	20.7	26.2	39.2#

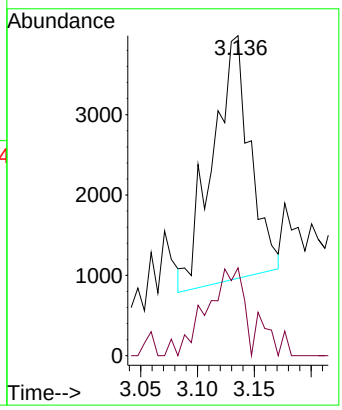




#6
Chloroethane
Concen: 1.289 ug/l
RT: 3.136 min Scan# 2
Delta R.T. 0.018 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 64 Resp: 698

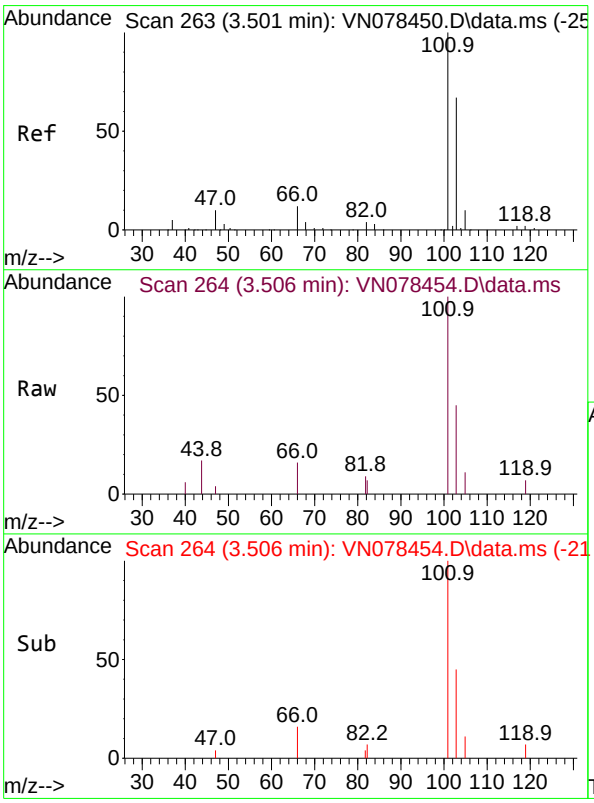
Ion	Ratio	Lower	Upper
64	100		
66	37.7	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

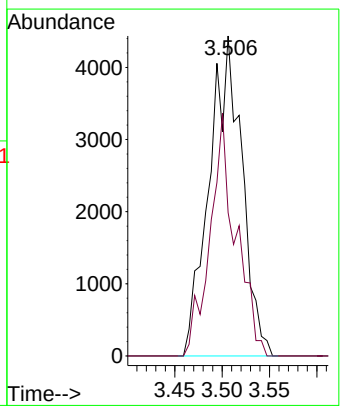
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

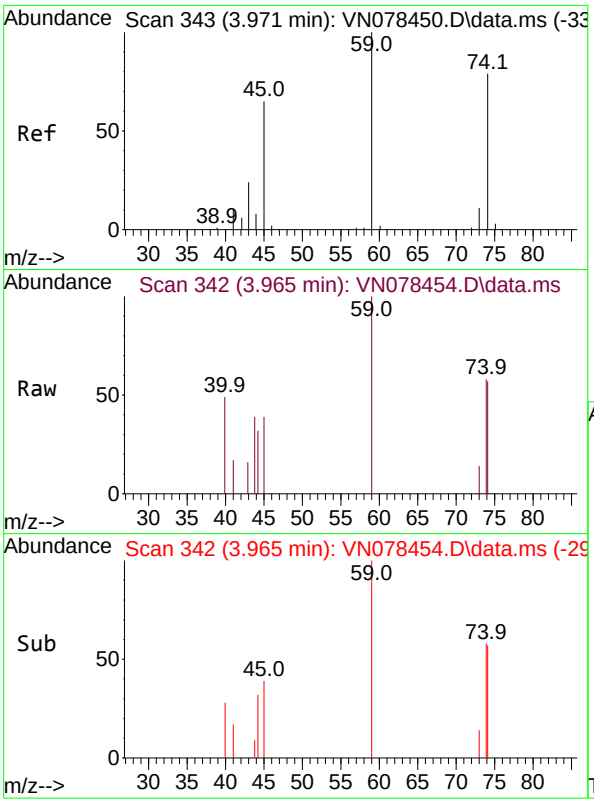


#7
Trichlorofluoromethane
Concen: 1.109 ug/l
RT: 3.506 min Scan# 264
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:101 Resp: 10631

Ion	Ratio	Lower	Upper
101	100		
103	44.8	50.7	76.1#





#8
Diethyl Ether
Concen: 1.086 ug/l
RT: 3.965 min Scan# 34
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

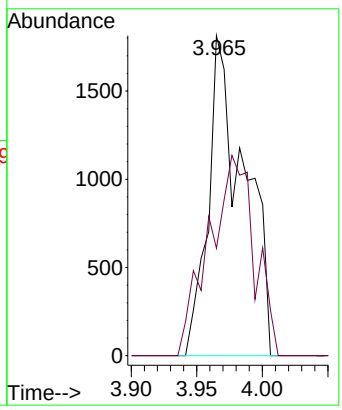
Tgt Ion: 74 Resp: 346

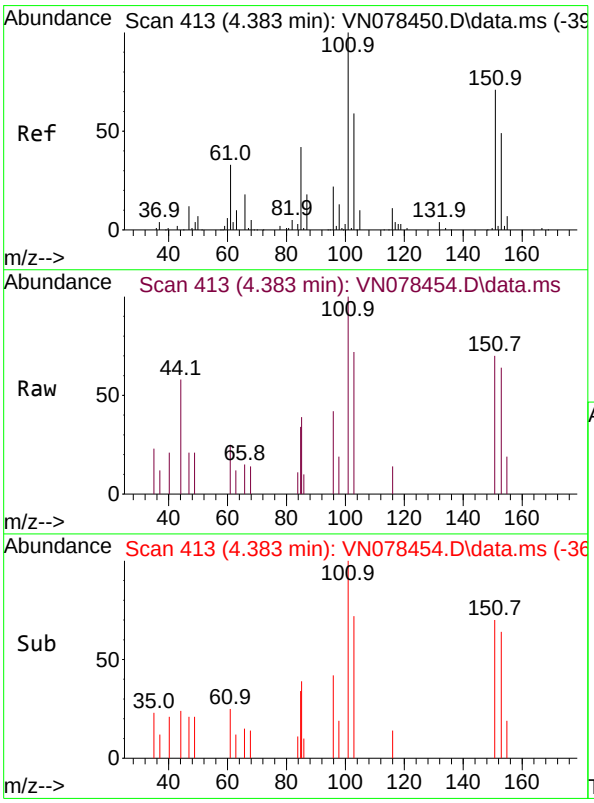
Ion	Ratio	Lower	Upper
74	100		
45	78.5	34.4	103.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

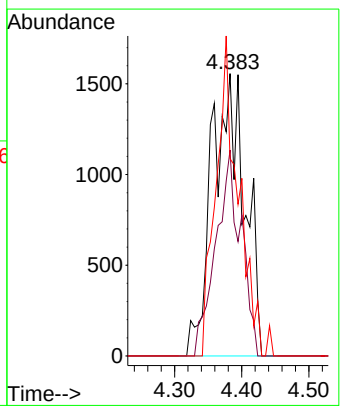


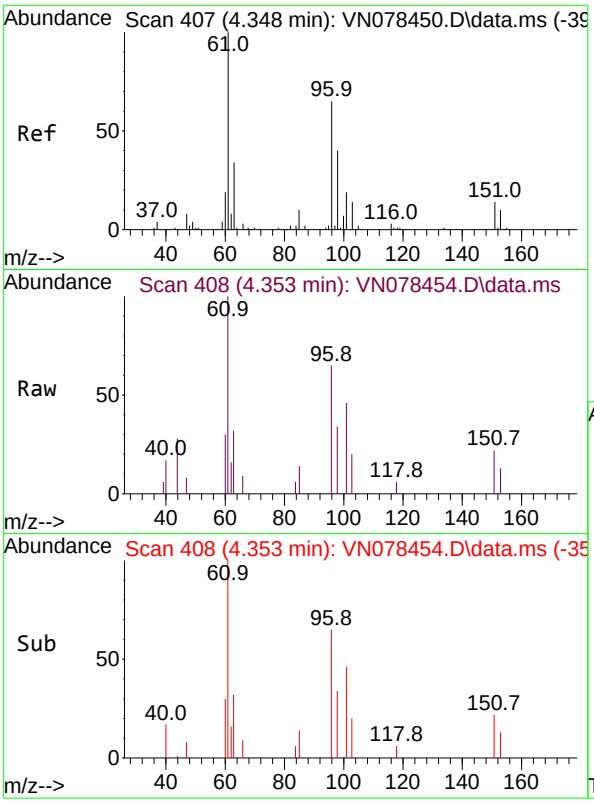


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.044 ug/l m
RT: 4.383 min Scan# 413
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:101 Resp: 5297

Ion	Ratio	Lower	Upper
101	100		
85	55.9	36.6	55.0#
151	76.5	57.6	86.4

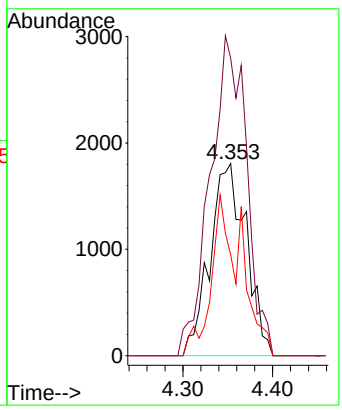




#12
1,1-Dichloroethene
Concen: 1.034 ug/l
RT: 4.353 min Scan# 4(
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 96 Resp: 507

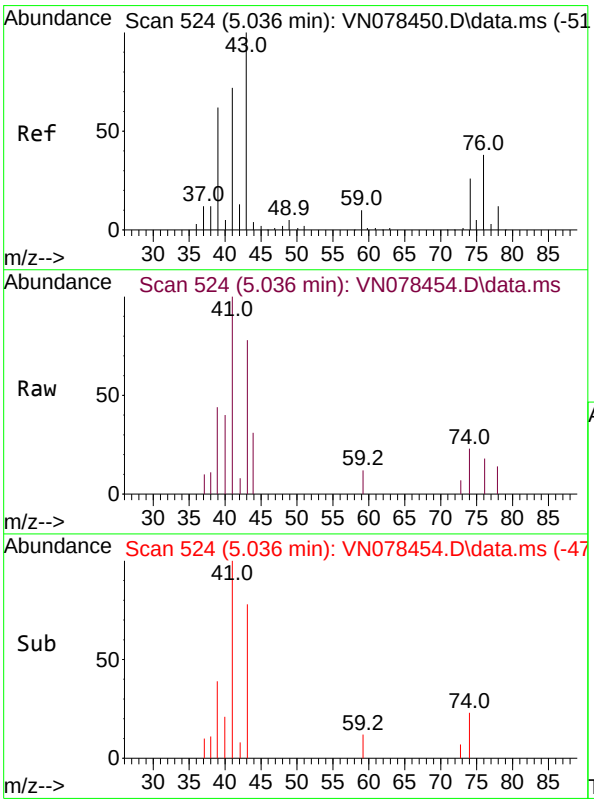
Ion	Ratio	Lower	Upper
96	100		
61	154.8	112.7	169.1
98	52.6	51.2	76.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

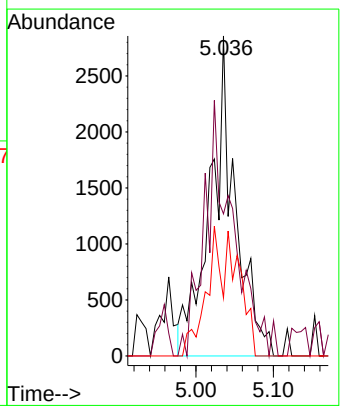
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

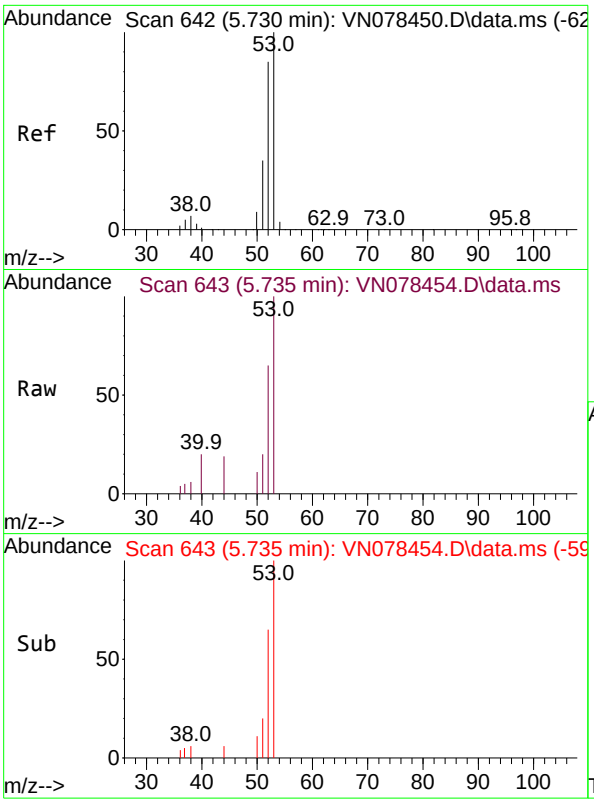


#14
Allyl chloride
Concen: 0.971 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 41 Resp: 6513

Ion	Ratio	Lower	Upper
41	100		
39	0.0	58.8	88.2#
76	22.8	39.1	58.7#

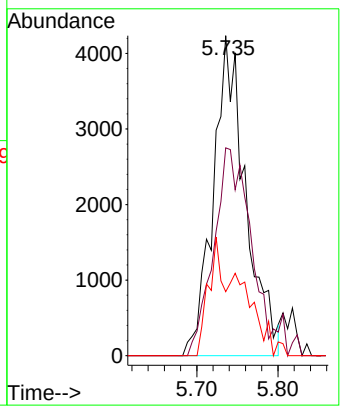




#15
Acrylonitrile
Concen: 4.833 ug/l
RT: 5.735 min Scan# 64
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 53 Resp: 1174

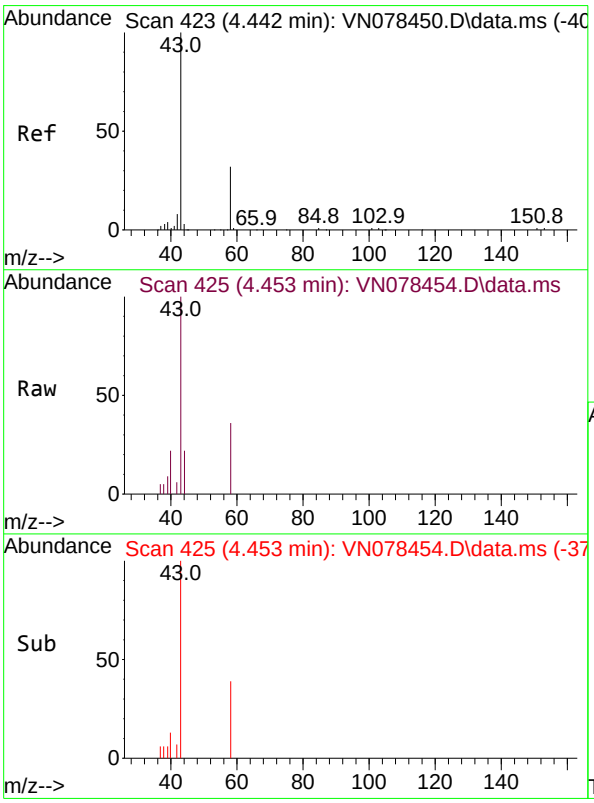
Ion	Ratio	Lower	Upper
53	100		
52	74.2	65.3	97.9
51	16.9	28.9	43.3#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

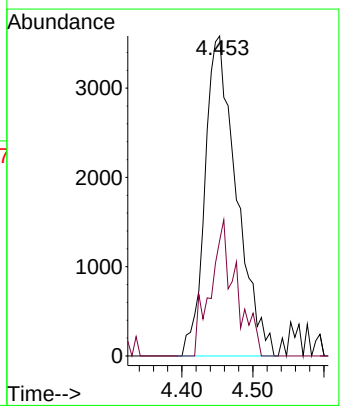
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

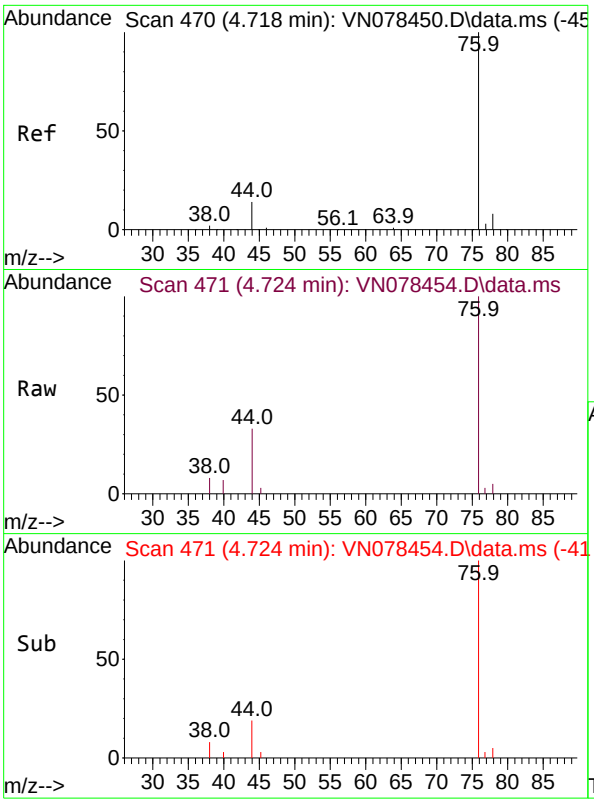


#16
Acetone
Concen: 5.680 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 11033

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.0	42.0





#17
Carbon Disulfide
Concen: 1.186 ug/l
RT: 4.724 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

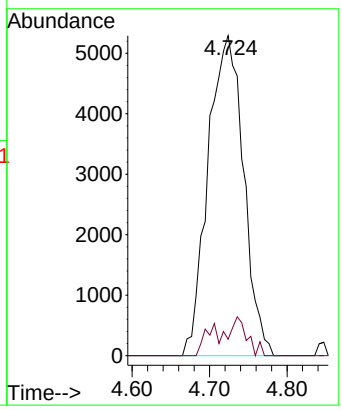
Tgt Ion: 76 Resp: 1683

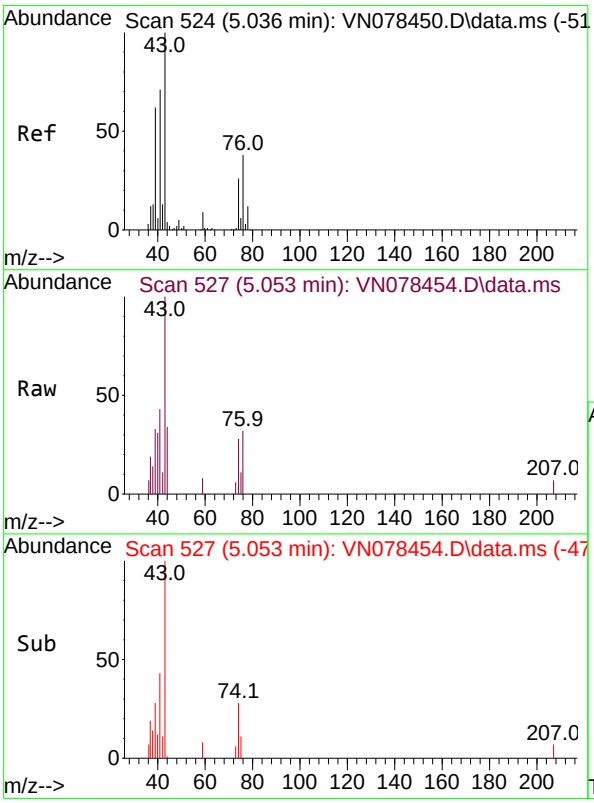
Ion	Ratio	Lower	Upper
76	100		
78	5.2	7.4	11.0#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

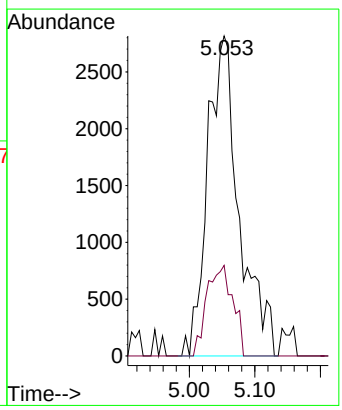


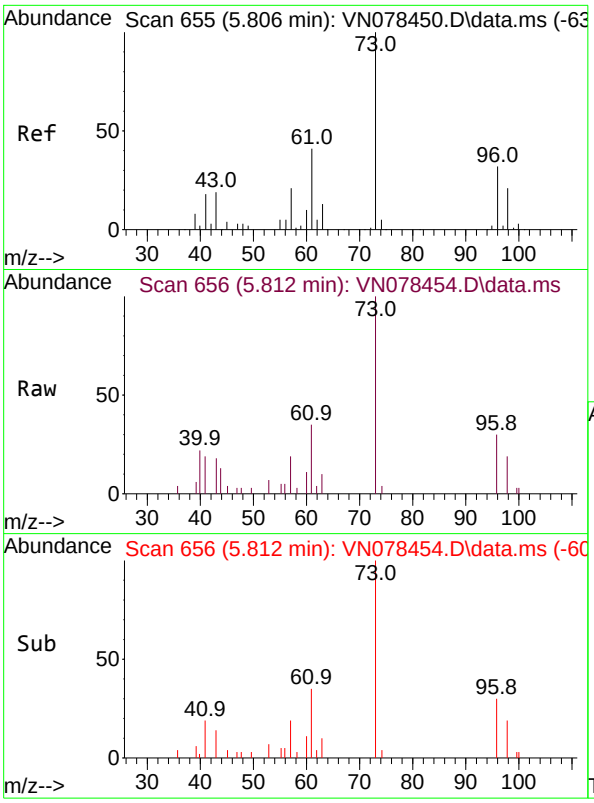


#18
Methyl Acetate
Concen: 1.148 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 9440

Ion	Ratio	Lower	Upper
43	100		
74	23.3	26.2	39.4#





#19
Methyl tert-butyl Ether
Concen: 0.979 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

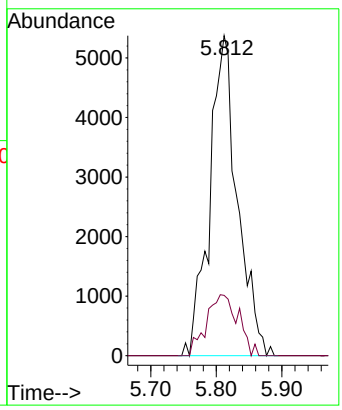
Tgt Ion: 73 Resp: 1582

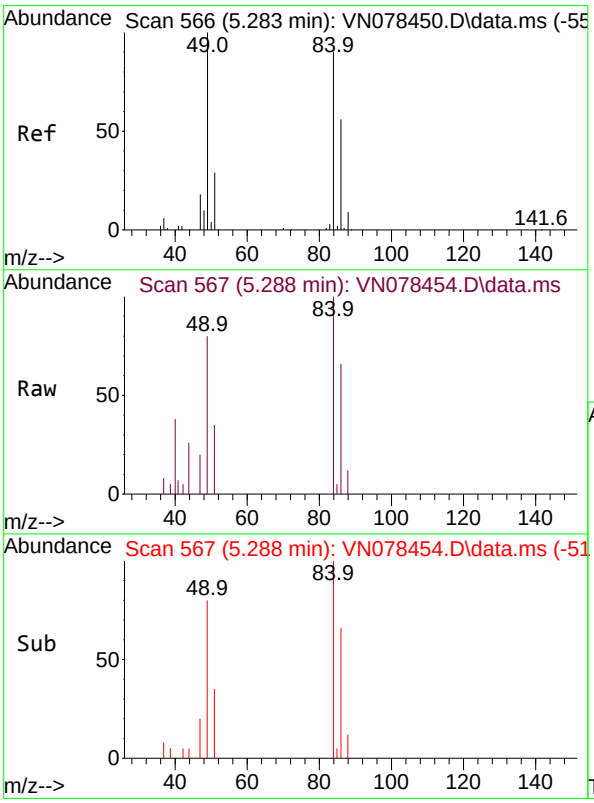
Ion	Ratio	Lower	Upper
73	100		
57	18.9	15.6	23.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

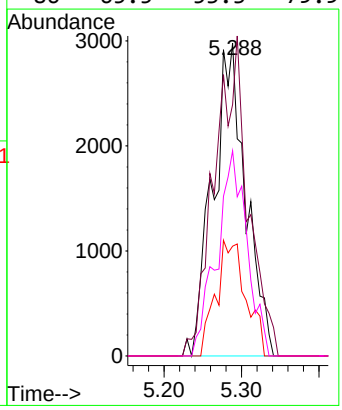


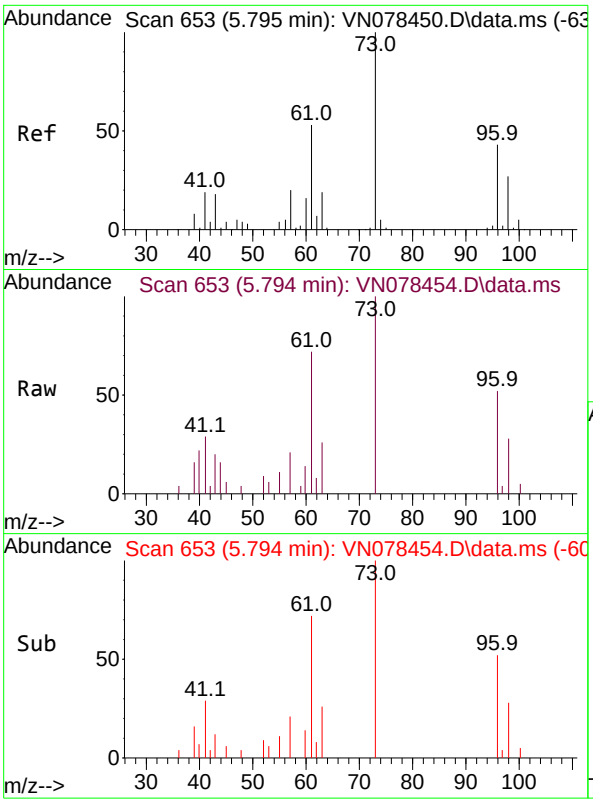


#20
Methylene Chloride
Concen: 1.284 ug/l
RT: 5.288 min Scan# 567
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 84 Resp: 8757

Ion	Ratio	Lower	Upper
84	100		
49	80.3	79.7	119.5
51	35.1	25.2	37.8
86	65.5	53.3	79.9

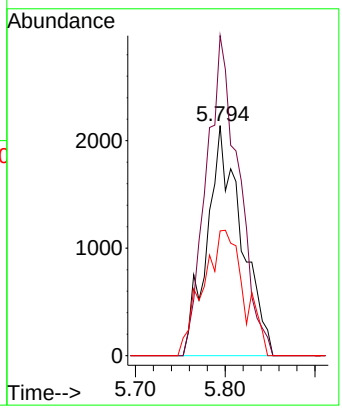




#21
trans-1,2-Dichloroethene
Concen: 1.027 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 96 Resp: 567

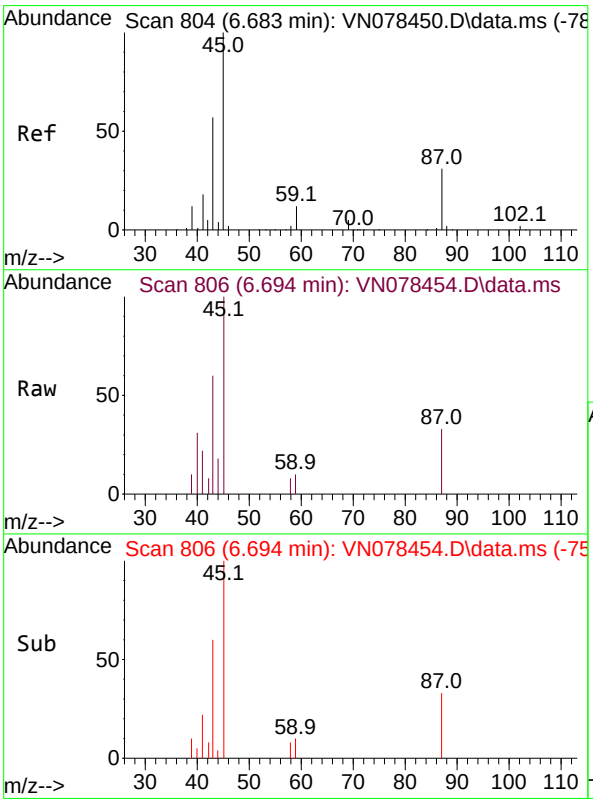
Ion	Ratio	Lower	Upper
96	100		
61	139.0	90.1	135.1#
98	54.2	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

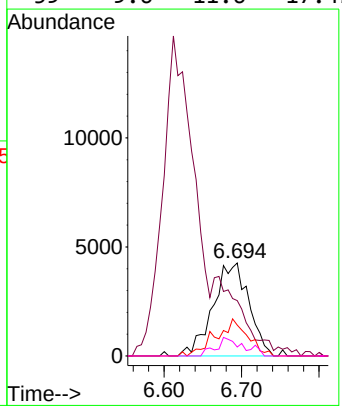
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

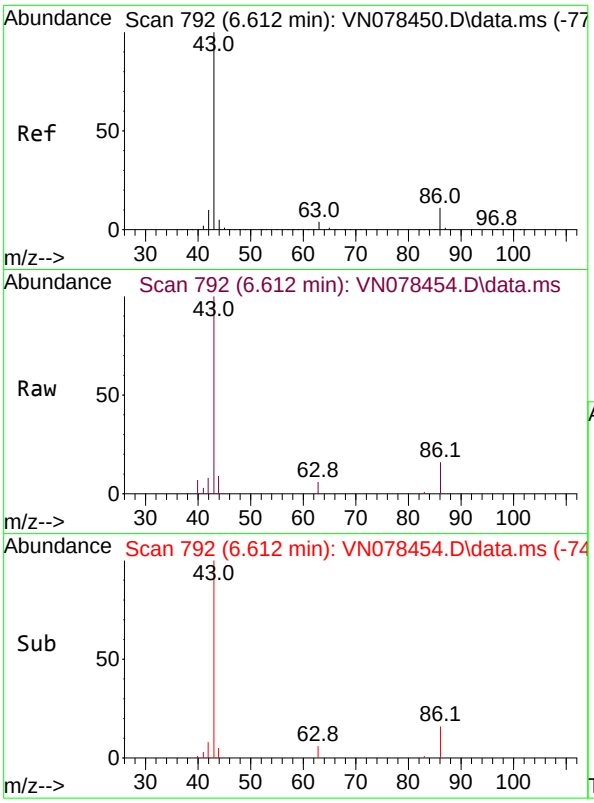


#22
Diisopropyl ether
Concen: 0.912 ug/l
RT: 6.694 min Scan# 806
Delta R.T. 0.011 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 45 Resp: 13689

Ion	Ratio	Lower	Upper
45	100		
43	50.0	45.5	68.3
87	33.2	31.8	47.8
59	9.6	11.6	17.4#





#23
Vinyl Acetate
Concen: 4.278 ug/l
RT: 6.612 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

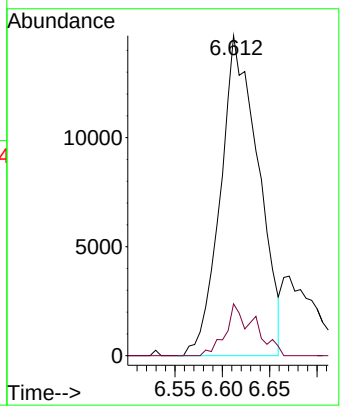
Tgt Ion: 43 Resp: 4084

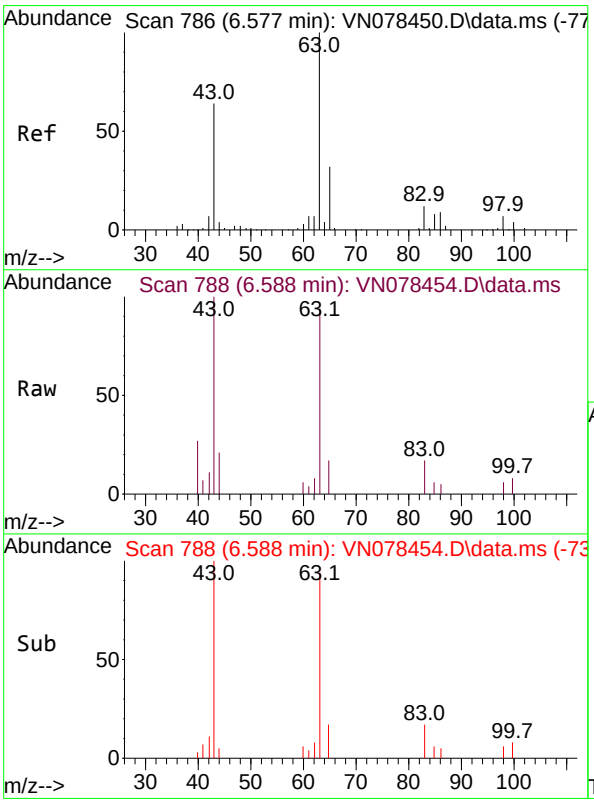
Ion	Ratio	Lower	Upper
43	100		
86	16.2	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

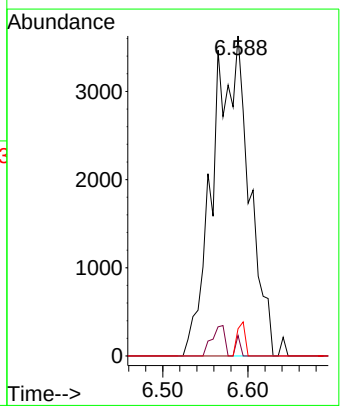


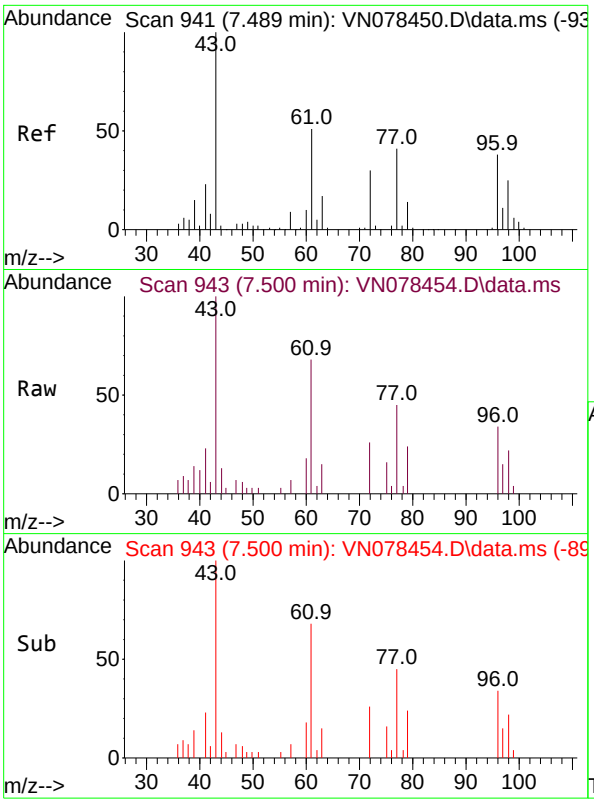


#24
1,1-Dichloroethane
Concen: 1.051 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.011 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 63 Resp: 10638

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.9	11.7
100	8.5	2.5	7.4#

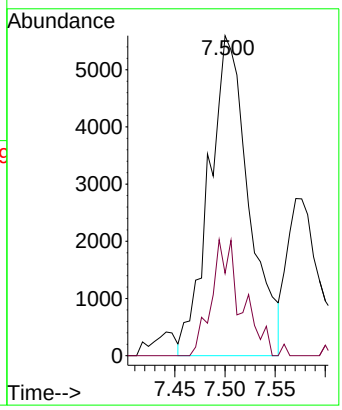




#25
2-Butanone
Concen: 5.053 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.011 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 1545

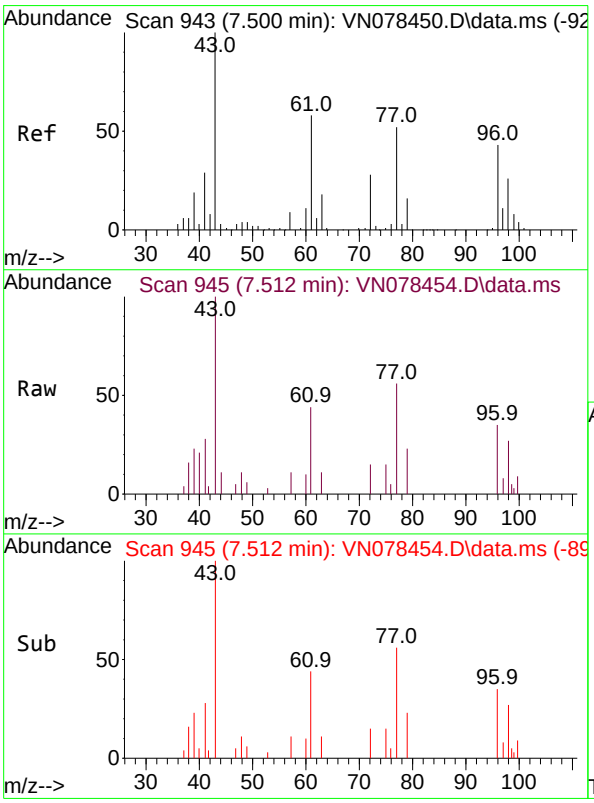
Ion	Ratio	Lower	Upper
43	100		
72	26.7	30.2	45.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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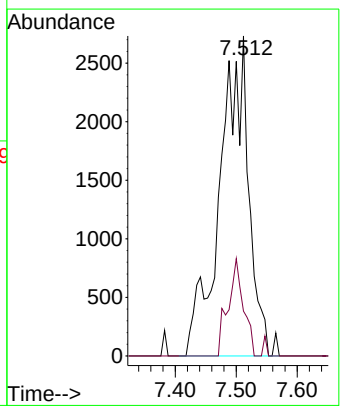
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

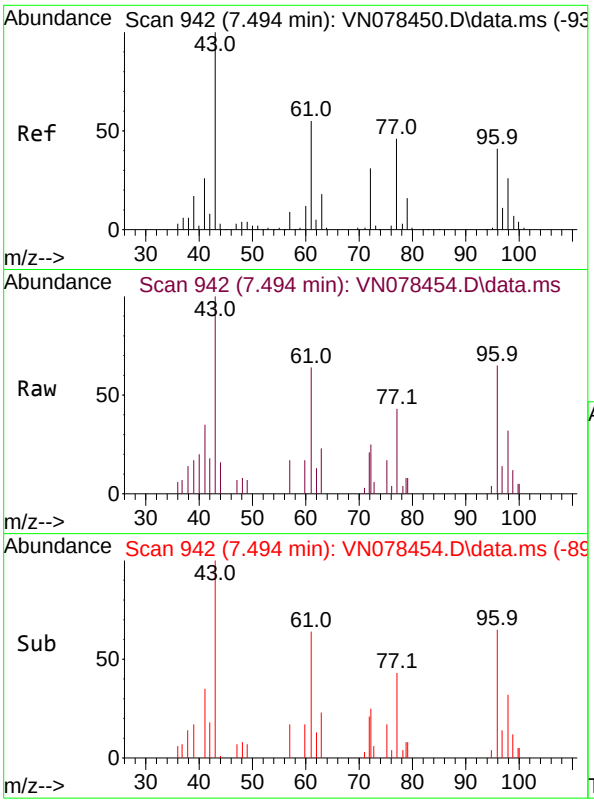


#26
2,2-Dichloropropane
Concen: 1.084 ug/l m
RT: 7.512 min Scan# 945
Delta R.T. 0.012 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 77 Resp: 8972

Ion	Ratio	Lower	Upper
77	100		
97	16.3	11.2	33.6

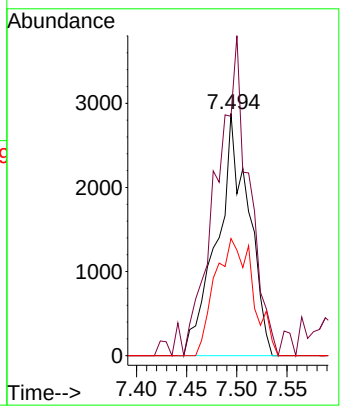




#27
cis-1,2-Dichloroethene
Concen: 0.986 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 96 Resp: 630

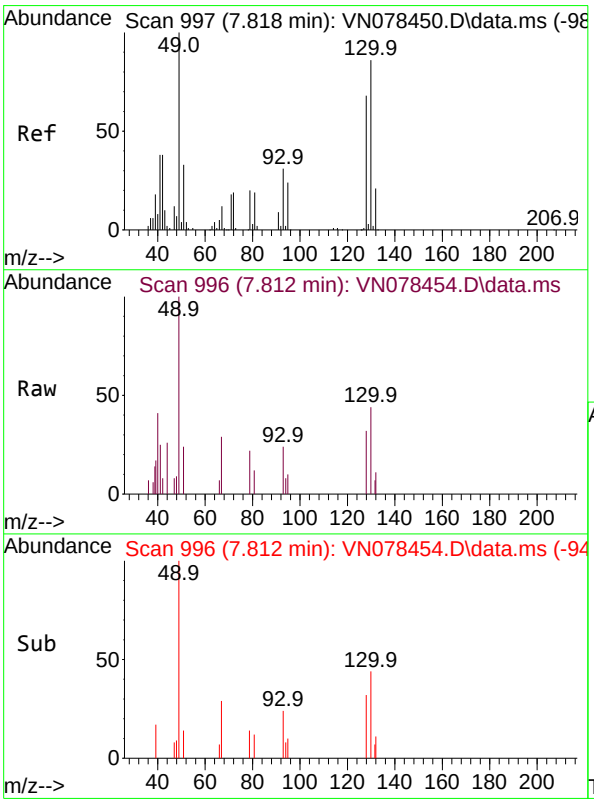
Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	255.2
98	58.2	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

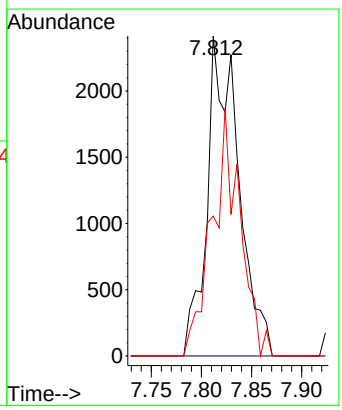
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

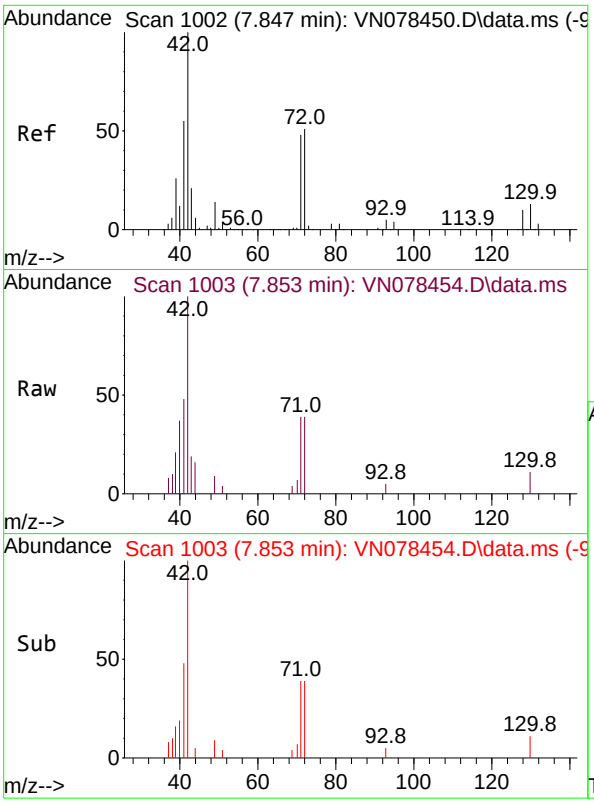


#28
Bromochloromethane
Concen: 1.108 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 49 Resp: 5279

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	68.6	75.3	112.9#





#29
Tetrahydrofuran
Concen: 4.967 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

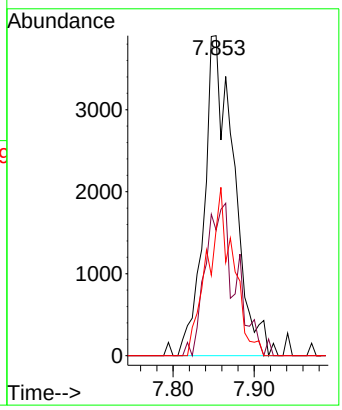
Tgt Ion: 42 Resp: 996

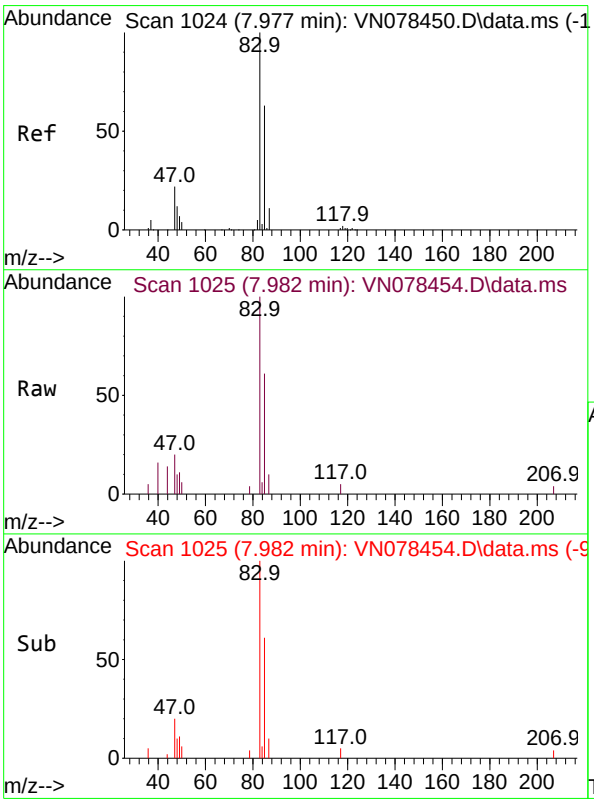
Ion	Ratio	Lower	Upper
42	100		
72	47.7	49.8	74.6#
71	45.5	47.4	71.2#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

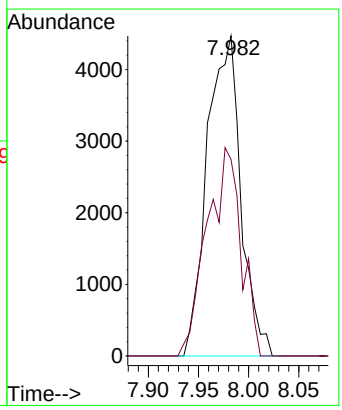


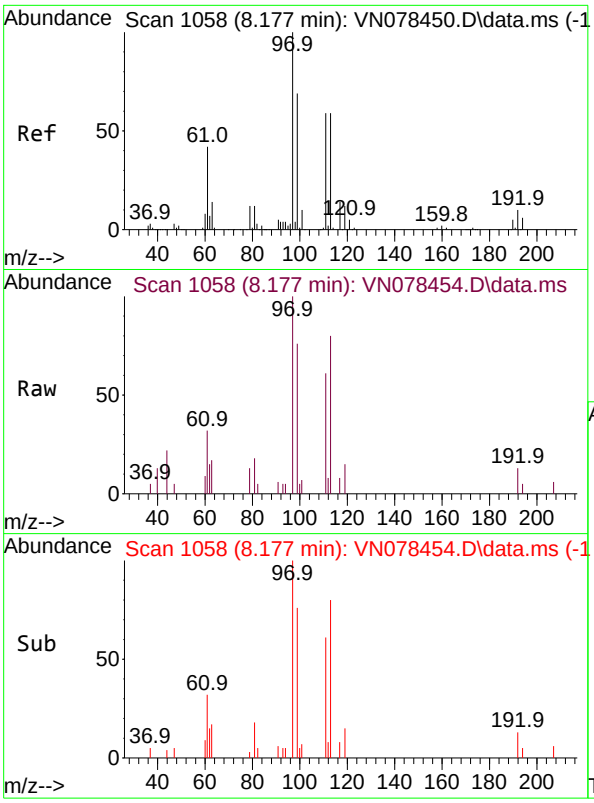


#30
Chloroform
Concen: 0.990 ug/l
RT: 7.982 min Scan# 1025
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 83 Resp: 10434

Ion	Ratio	Lower	Upper
83	100		
85	61.4	55.4	83.0

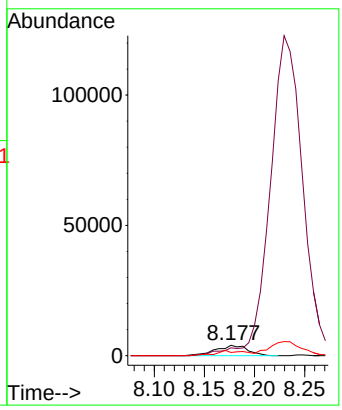




#32
1,1,1-Trichloroethane
Concen: 0.933 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 97 Resp: 881

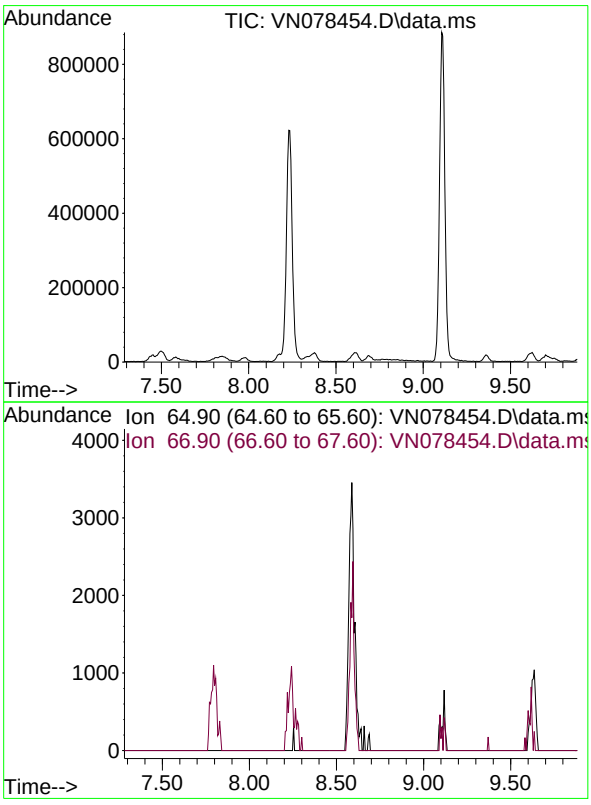
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5#
61	45.7	34.7	52.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

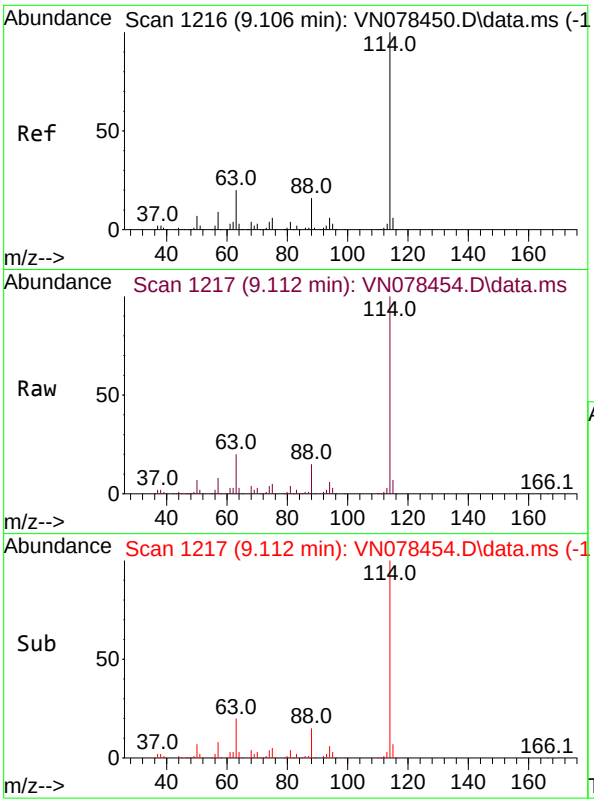


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.58 min

Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	53.3



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

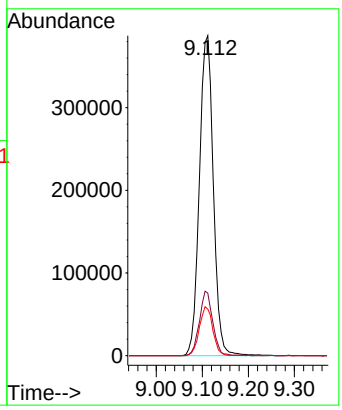
Tgt Ion:114 Resp: 81814

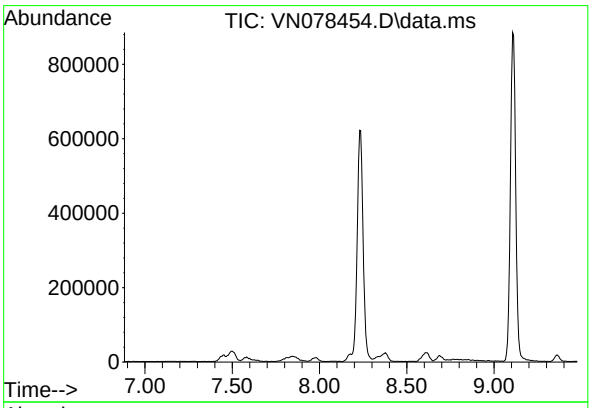
Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	36.4
88	14.5	0.0	30.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



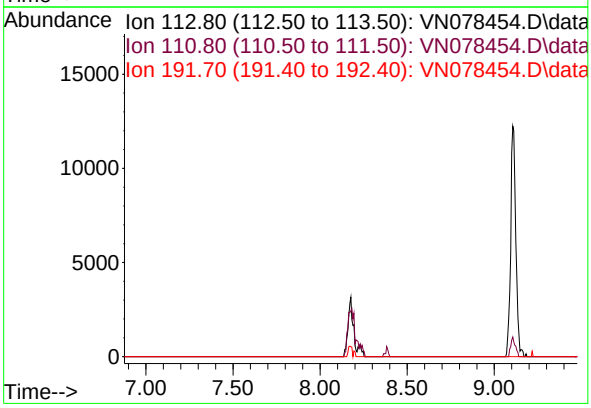


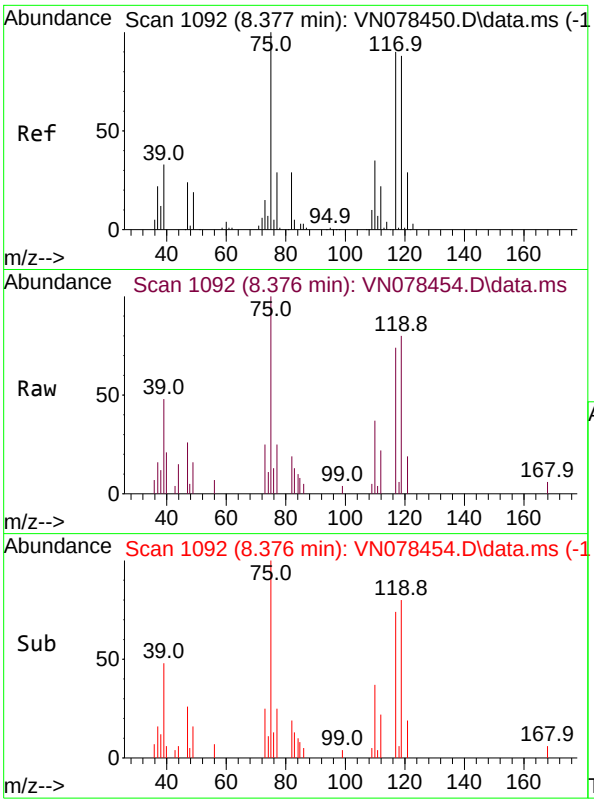
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.18 min

Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.2
192	15.9

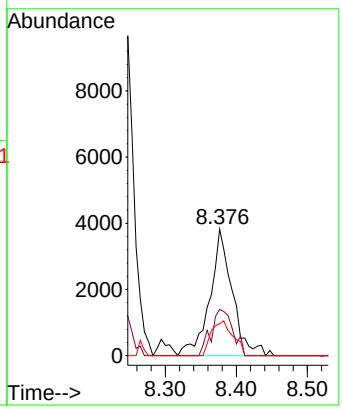




#36
1,1-Dichloropropene
Concen: 1.050 ug/l
RT: 8.376 min Scan# 1(
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 75 Resp: 842(

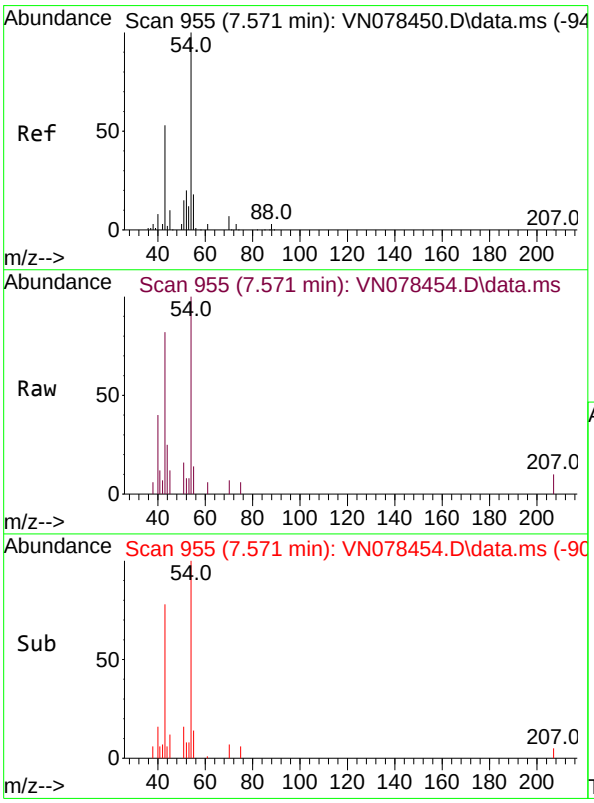
Ion	Ratio	Lower	Upper
75	100		
110	35.2	19.1	57.3
77	26.5	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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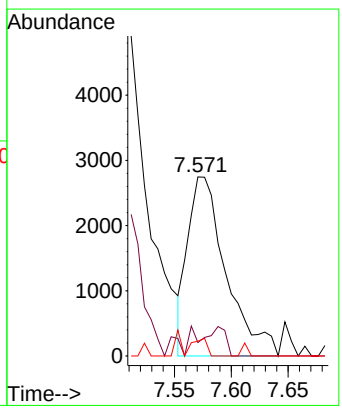
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

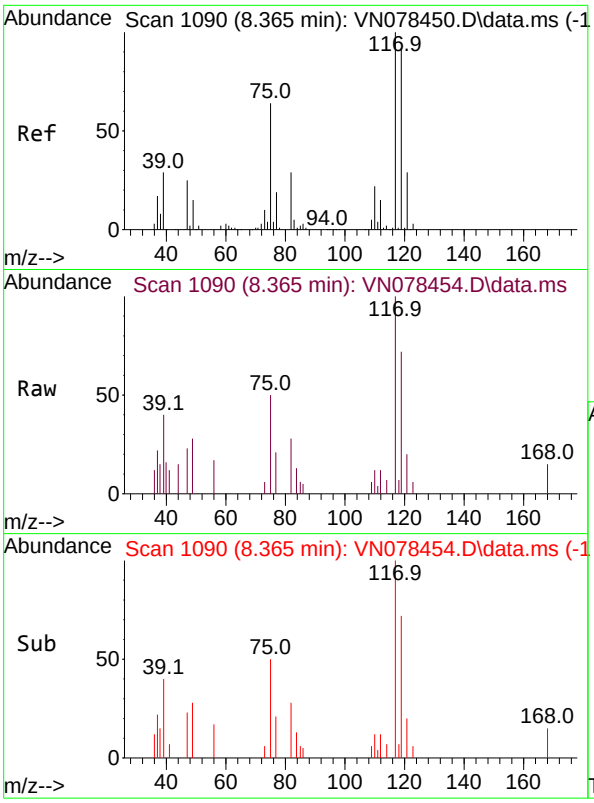


#37
Ethyl Acetate
Concen: 0.964 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 6447

Ion	Ratio	Lower	Upper
43	100		
61	6.3	13.2	19.8#
70	3.8	11.3	16.9#

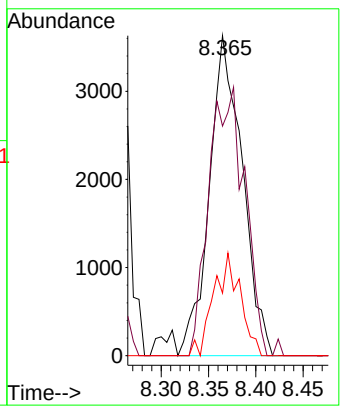




#38
Carbon Tetrachloride
Concen: 1.011 ug/l
RT: 8.365 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:117 Resp: 881

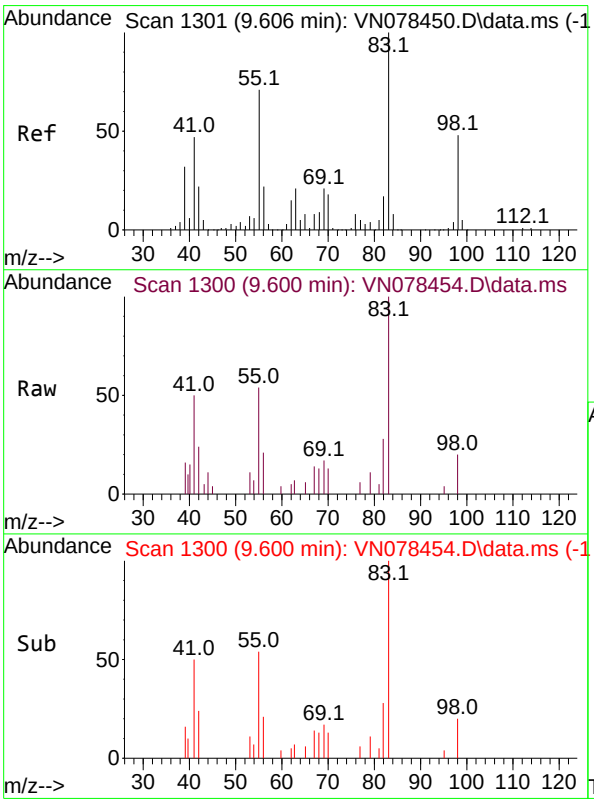
Ion	Ratio	Lower	Upper
117	100		
119	71.8	77.3	115.9#
121	19.6	23.3	34.9#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

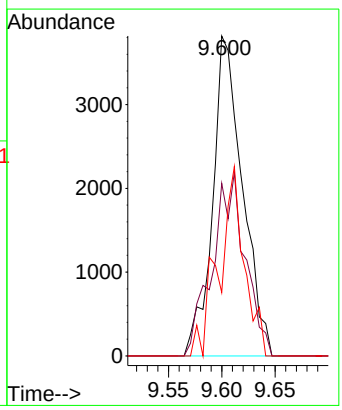
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

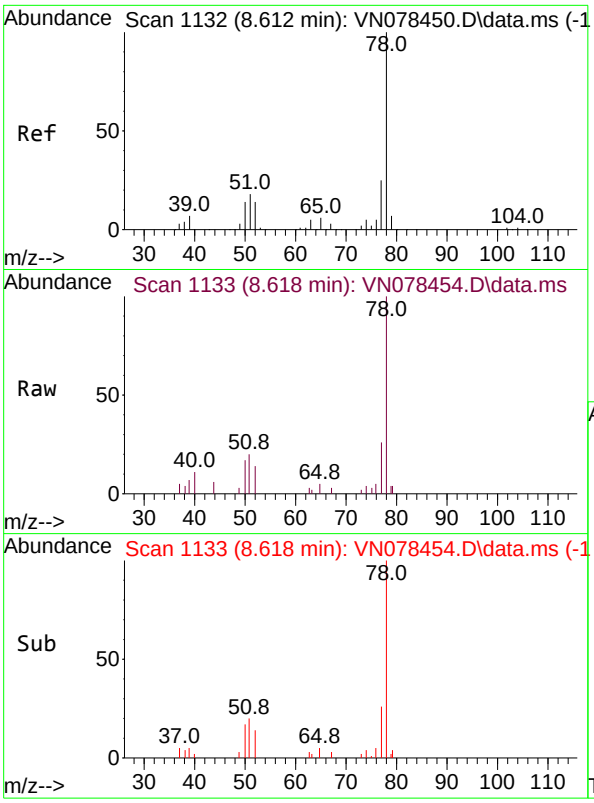


#39
Methylcyclohexane
Concen: 1.018 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 83 Resp: 7452

Ion	Ratio	Lower	Upper
83	100		
55	53.9	49.1	73.7
98	19.8	40.6	61.0#

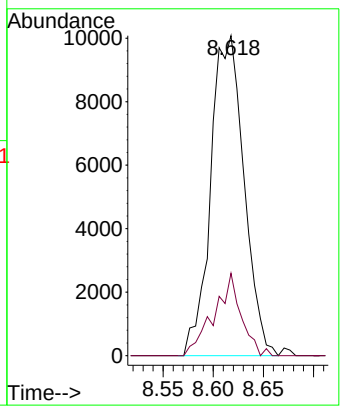




#40
Benzene
Concen: 0.978 ug/l
RT: 8.618 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 78 Resp: 2322

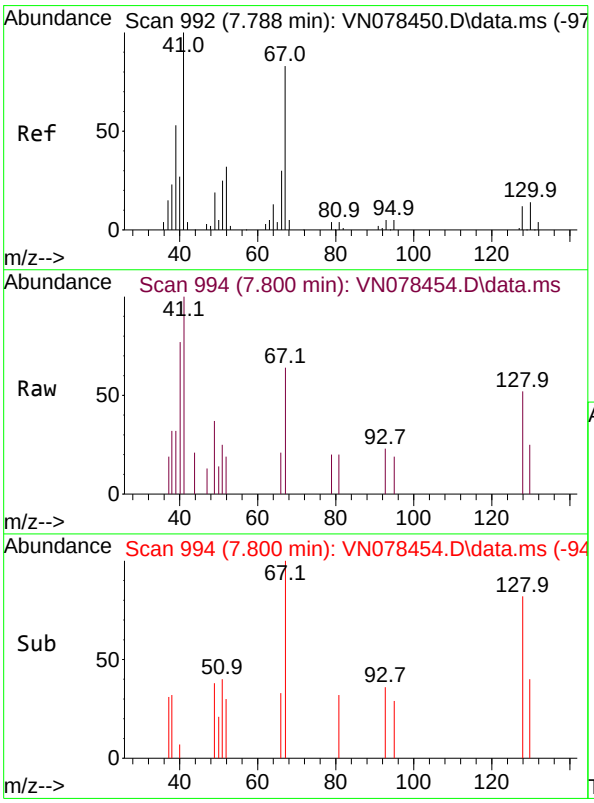
Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.0	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

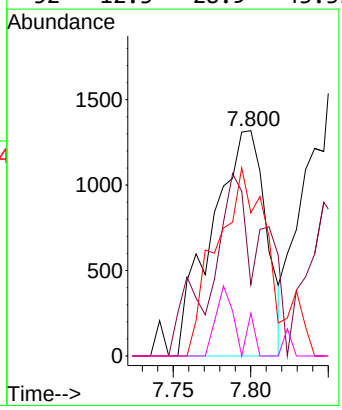
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

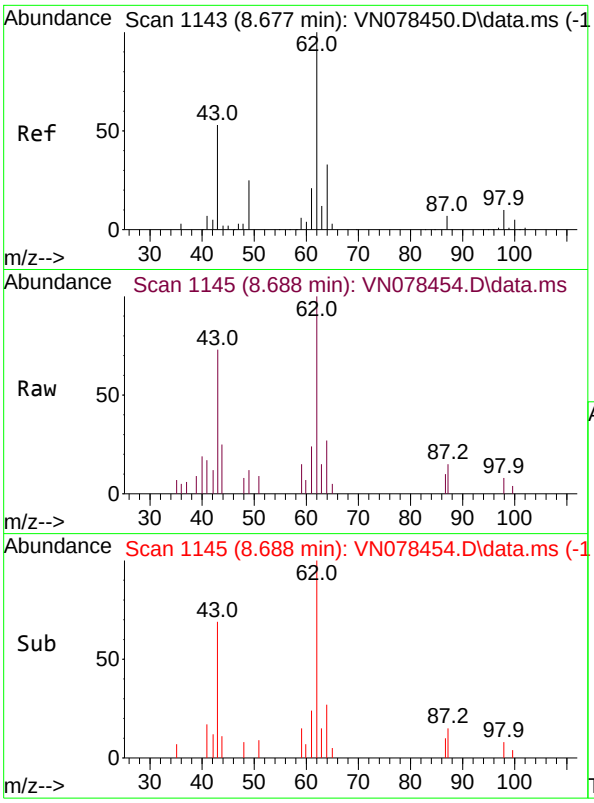


#41
Methacrylonitrile
Concen: 0.945 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.012 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 41 Resp: 3220

Ion	Ratio	Lower	Upper
41	100		
39	33.1	42.6	64.0#
67	76.1	77.5	116.3#
52	12.3	28.9	43.3#

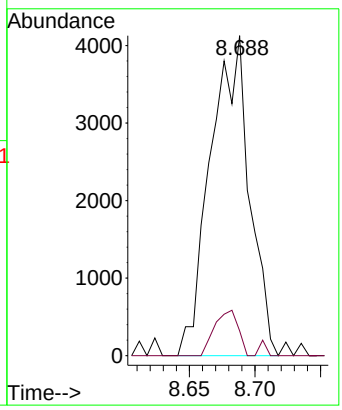




#42
1,2-Dichloroethane
Concen: 1.057 ug/l
RT: 8.688 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 62 Resp: 854

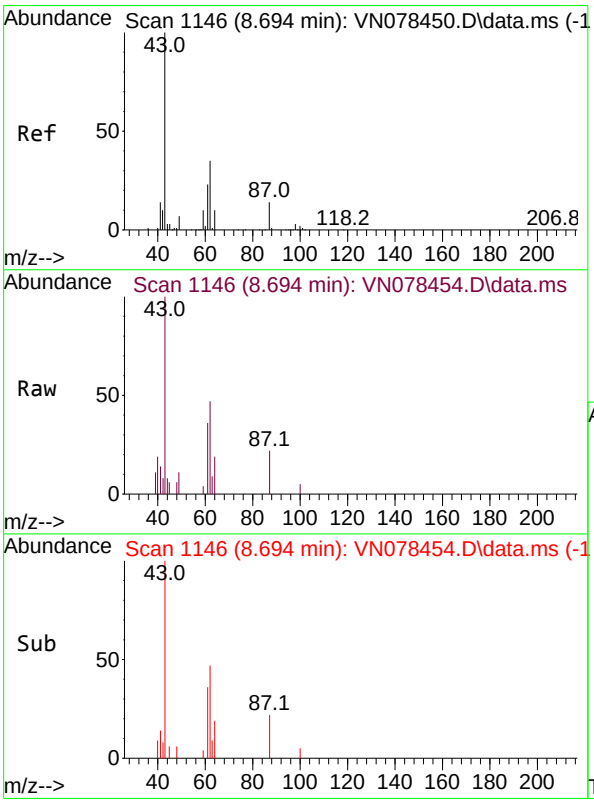
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	19.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

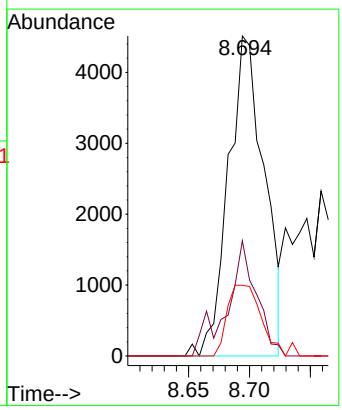
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

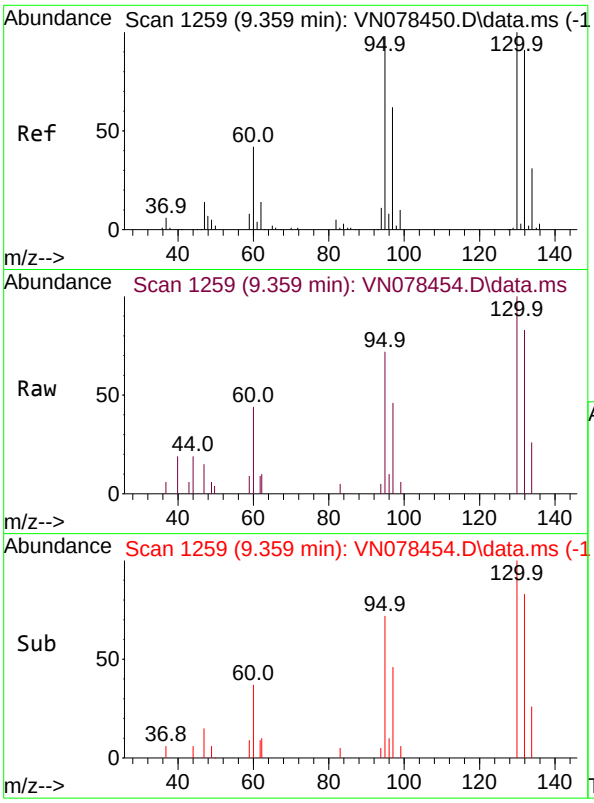


#43
Isopropyl Acetate
Concen: 0.839 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 9229

Ion	Ratio	Lower	Upper
43	100		
61	25.4	24.7	37.1
87	21.5	14.6	21.8

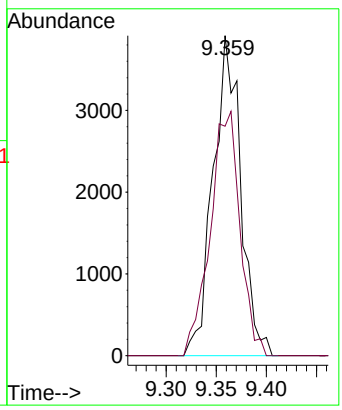




#44
Trichloroethene
Concen: 1.171 ug/l
RT: 9.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:130 Resp: 749

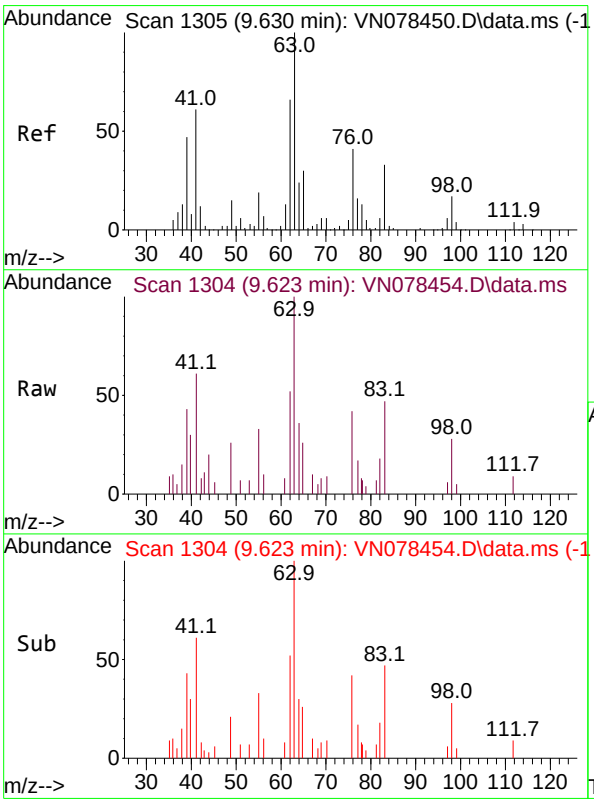
Ion	Ratio	Lower	Upper
130	100		
95	71.7	0.0	204.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

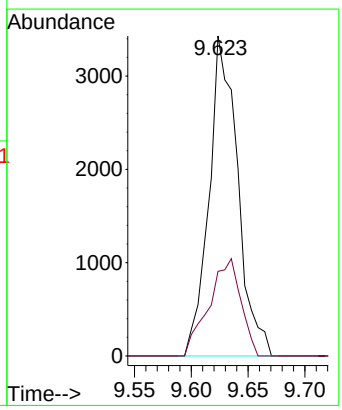
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

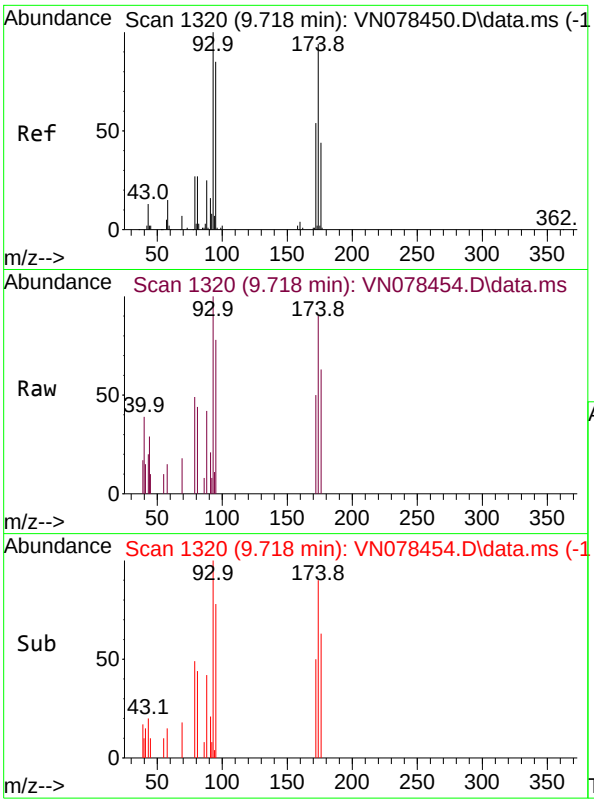


#45
1,2-Dichloropropane
Concen: 0.999 ug/l
RT: 9.623 min Scan# 1304
Delta R.T. -0.007 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 63 Resp: 6009

Ion	Ratio	Lower	Upper
63	100		
65	26.4	23.9	35.9

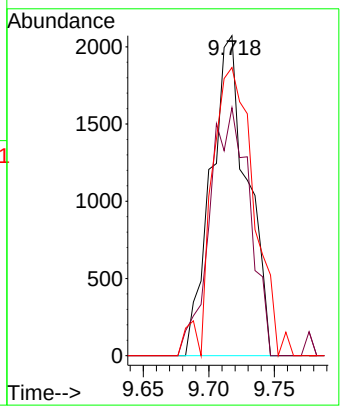




#46
Dibromomethane
Concen: 0.942 ug/l
RT: 9.718 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 93 Resp: 399

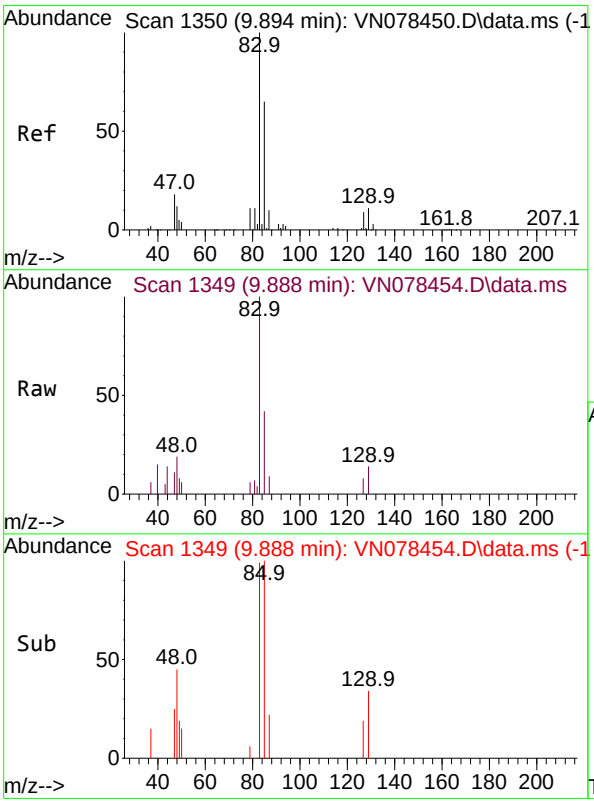
Ion	Ratio	Lower	Upper
93	100		
95	85.4	63.8	95.8
174	104.8	65.6	98.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

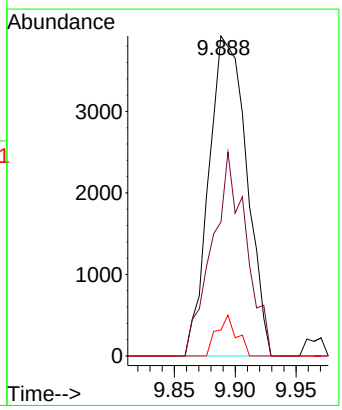
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

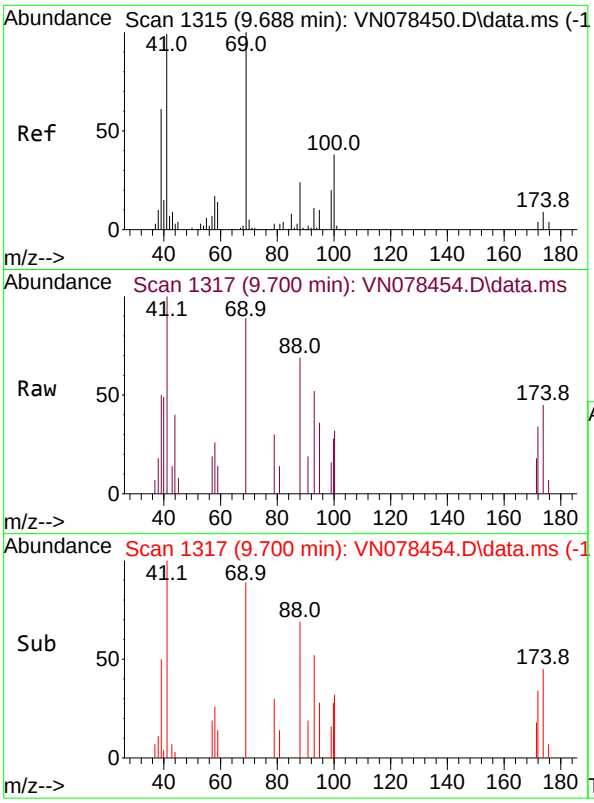


#47
Bromodichloromethane
Concen: 0.998 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 83 Resp: 8476

Ion	Ratio	Lower	Upper
83	100		
85	41.8	49.6	74.4#
127	8.1	7.0	10.6

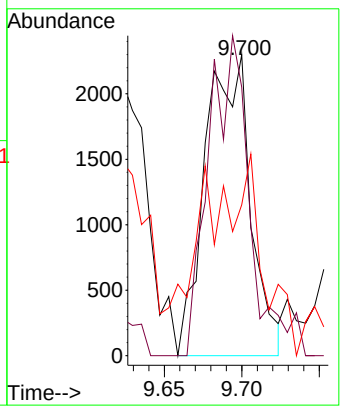




#48
Methyl methacrylate
Concen: 0.918 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 41 Resp: 468

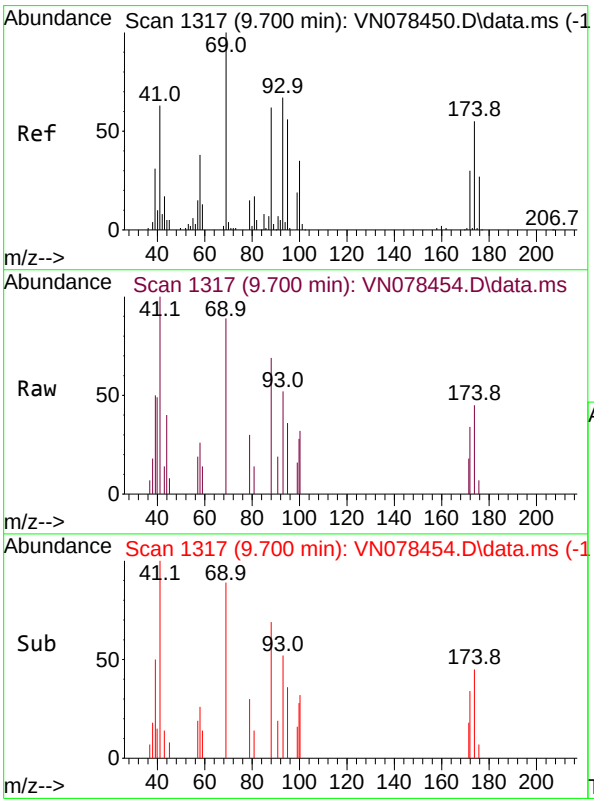
Ion	Ratio	Lower	Upper
41	100		
69	96.9	90.4	135.6
39	0.0	54.6	81.8#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

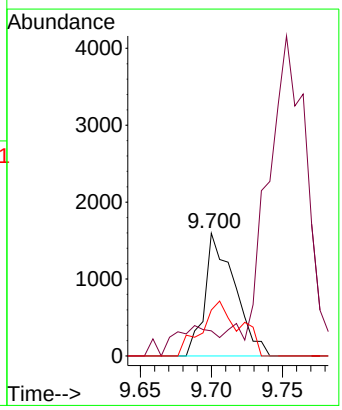
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

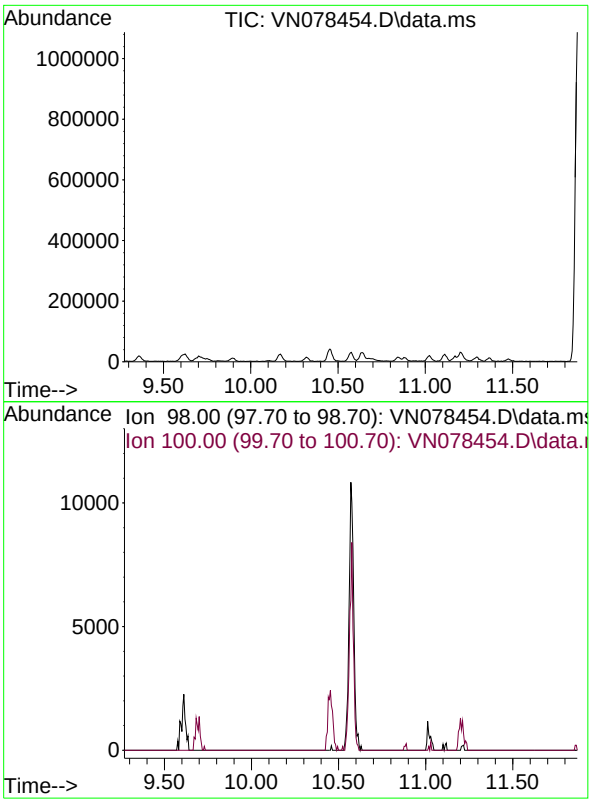


#49
1,4-Dioxane
Concen: 20.972 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 88 Resp: 2332

Ion	Ratio	Lower	Upper
88	100		
43	35.9	17.0	25.6#
58	56.7	47.0	70.4





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.57 min

Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

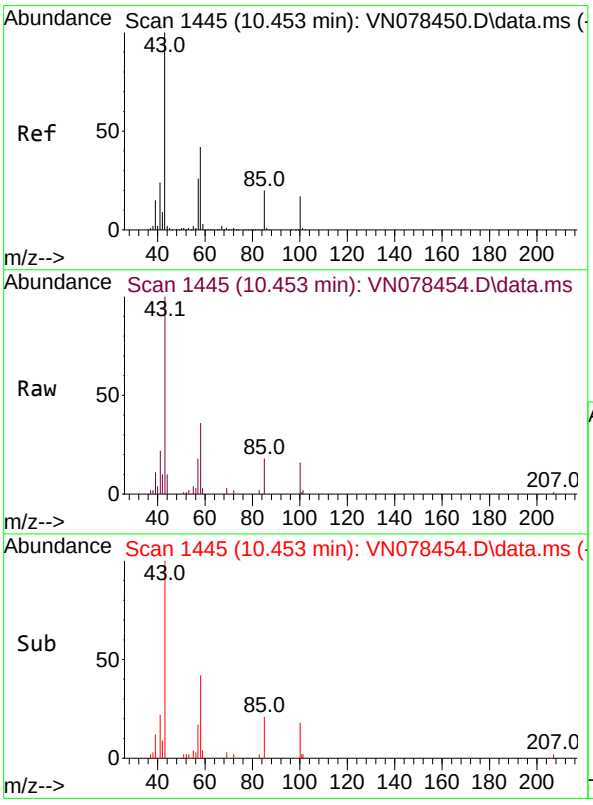
Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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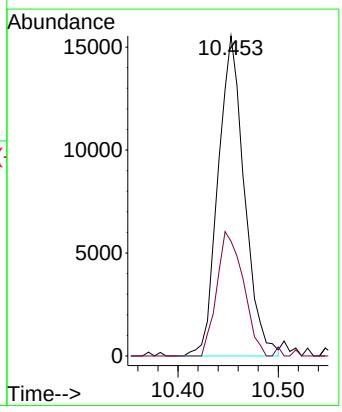
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

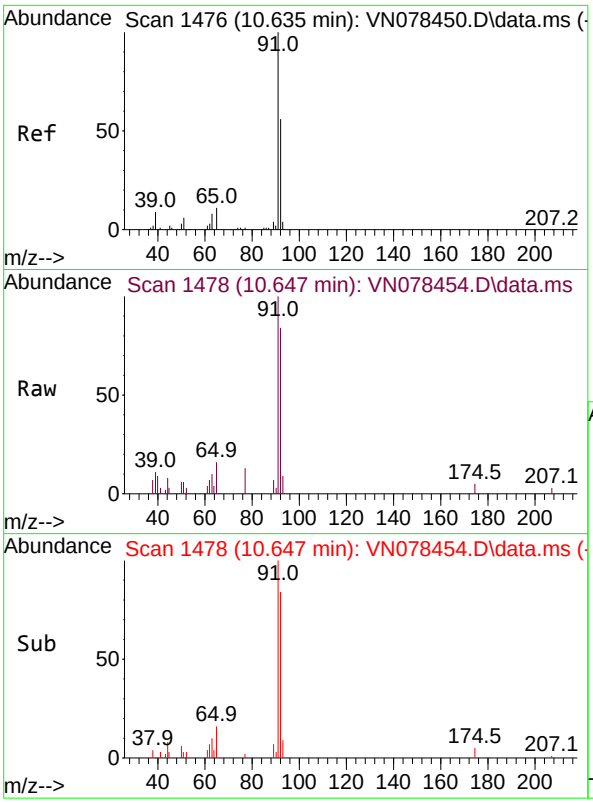


#51
4-Methyl-2-Pentanone
Concen: 4.323 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 28299

Ion	Ratio	Lower	Upper
43	100		
58	39.1	36.6	54.8





#52
Toluene
Concen: 0.983 ug/l
RT: 10.647 min Scan# 14
Delta R.T. 0.012 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

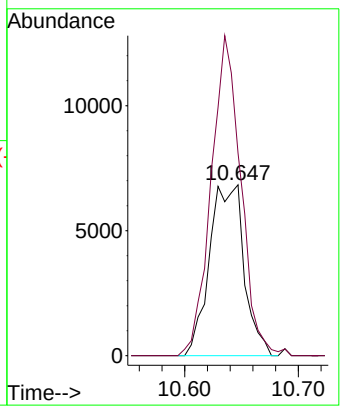
Tgt Ion: 92 Resp: 1447

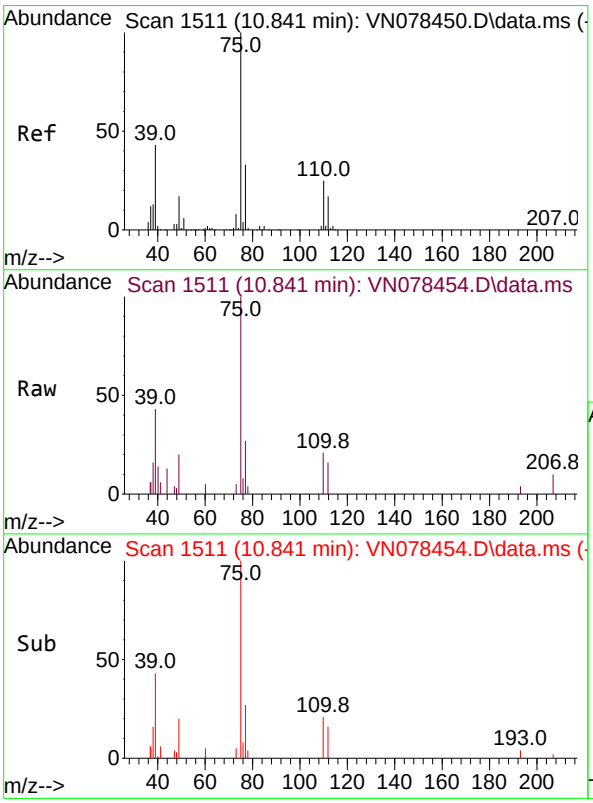
Ion	Ratio	Lower	Upper
92	100		
91	160.9	137.4	206.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

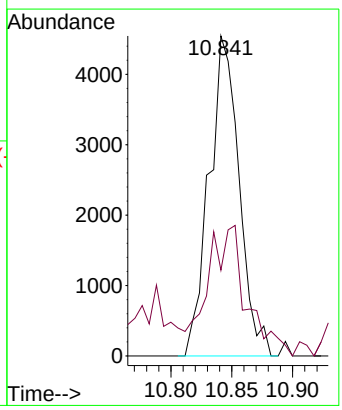


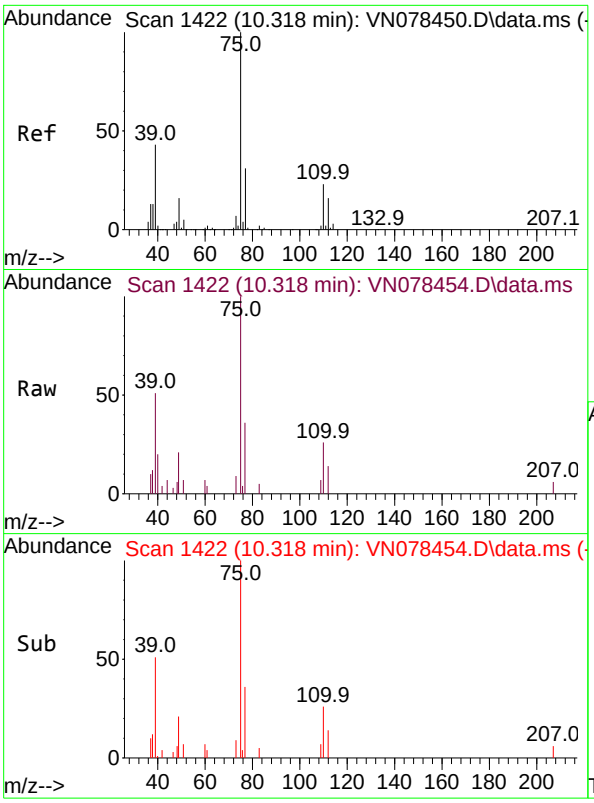


#53
t-1,3-Dichloropropene
Concen: 0.895 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 75 Resp: 7787

Ion	Ratio	Lower	Upper
75	100		
77	21.3	25.4	38.0#

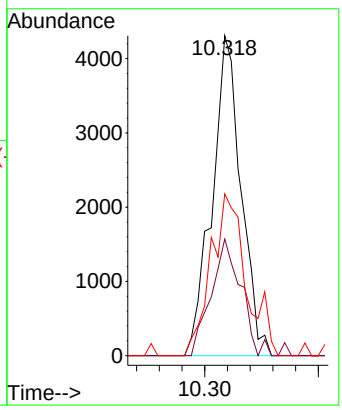




#54
cis-1,3-Dichloropropene
Concen: 0.825 ug/l
RT: 10.318 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 75 Resp: 764

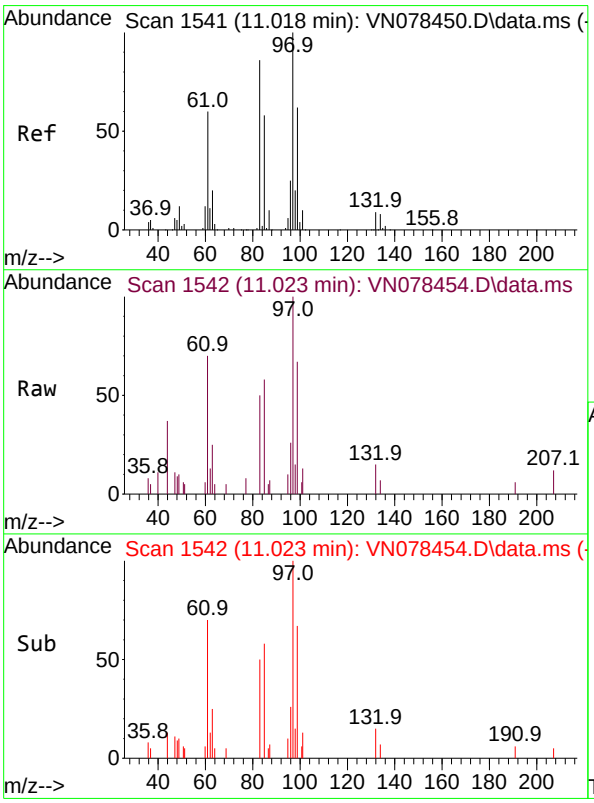
Ion	Ratio	Lower	Upper
75	100		
77	36.5	26.1	39.1
39	50.5	31.6	47.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

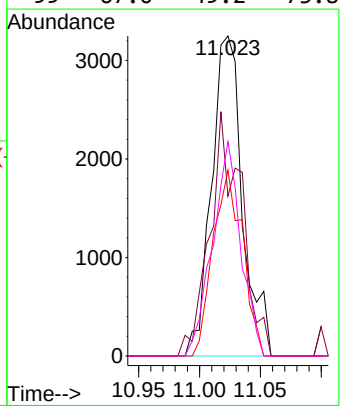
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

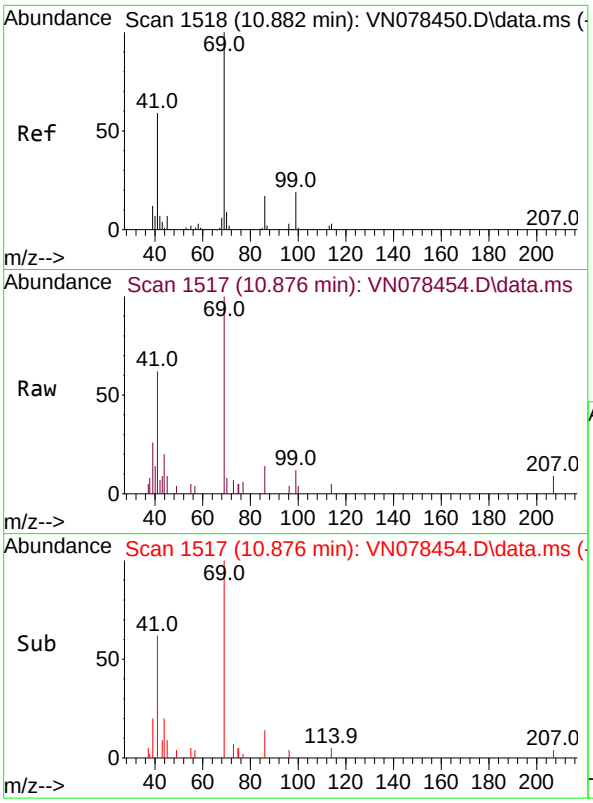


#55
1,1,2-Trichloroethane
Concen: 0.995 ug/l
RT: 11.023 min Scan# 1542
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 97 Resp: 5774

Ion	Ratio	Lower	Upper
97	100		
83	50.0	65.1	97.7#
85	58.0	43.4	65.2
99	67.0	49.2	73.8





#56
Ethyl methacrylate
Concen: 0.871 ug/l
RT: 10.876 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

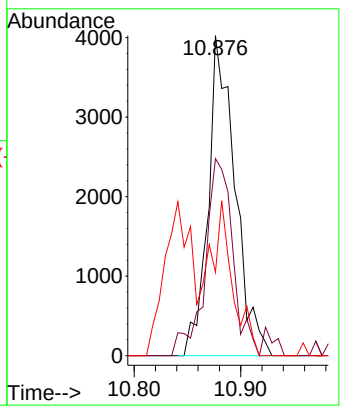
Tgt Ion: 69 Resp: 706

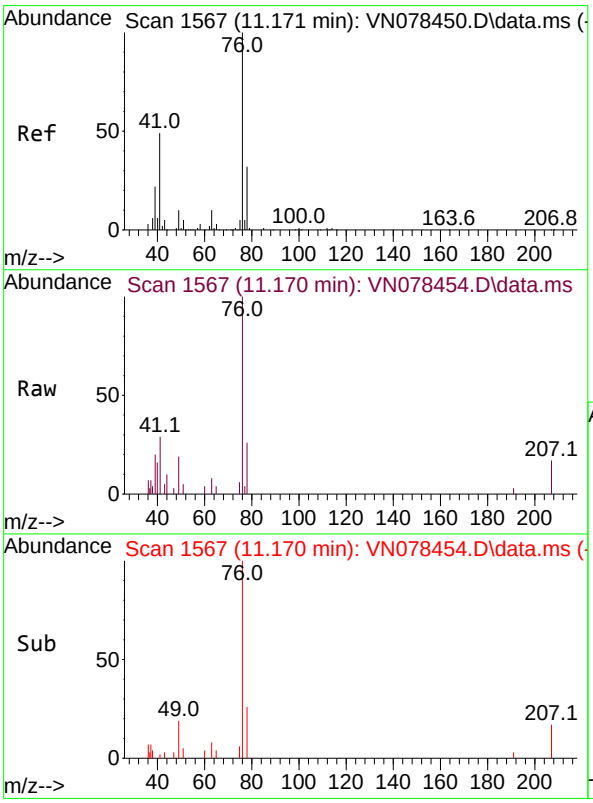
Ion	Ratio	Lower	Upper
69	100		
41	63.1	39.6	59.4
39	37.7	28.6	43.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

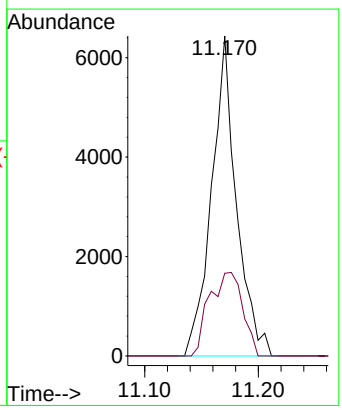


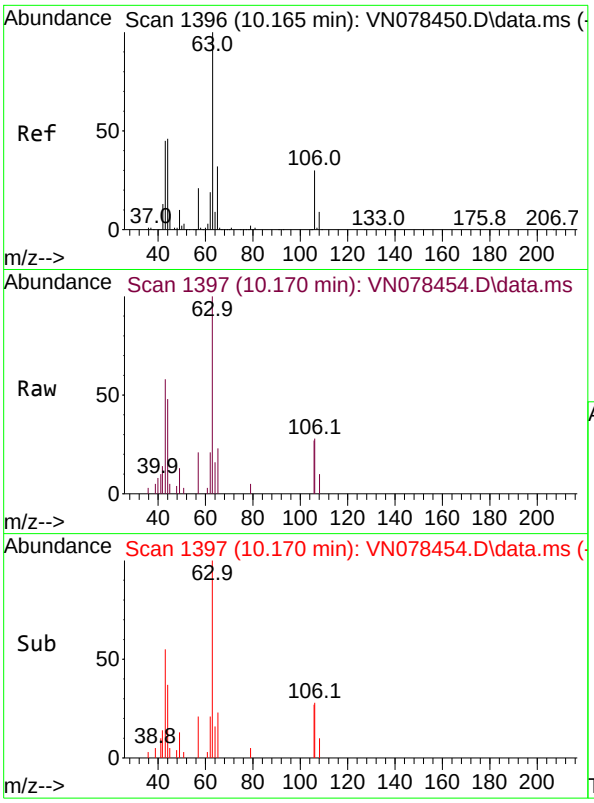


#57
1,3-Dichloropropane
Concen: 0.992 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 76 Resp: 9790

Ion	Ratio	Lower	Upper
76	100		
78	35.0	26.1	39.1

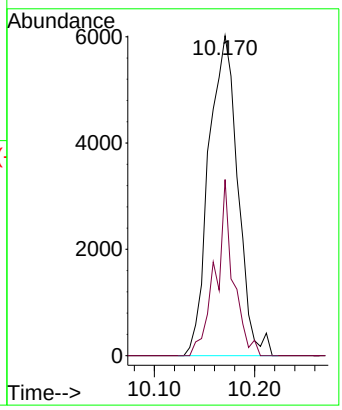




#58
2-Chloroethyl Vinyl ether
Concen: 4.188 ug/l
RT: 10.170 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 63 Resp: 1210

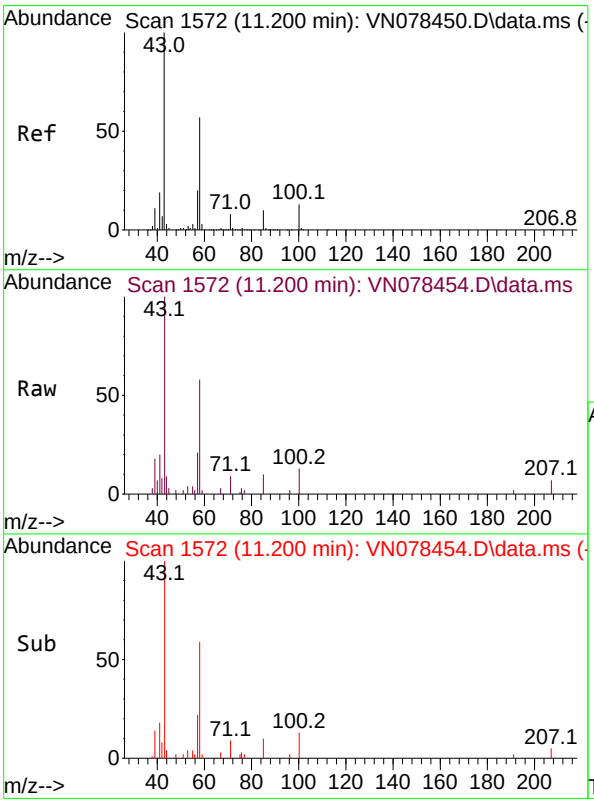
Ion	Ratio	Lower	Upper
63	100		
106	33.3	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

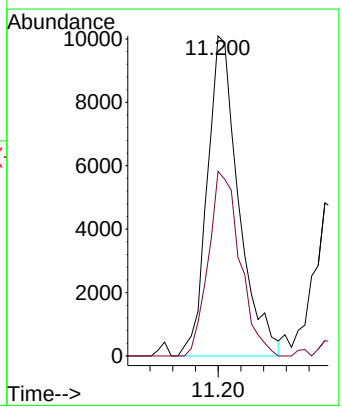
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

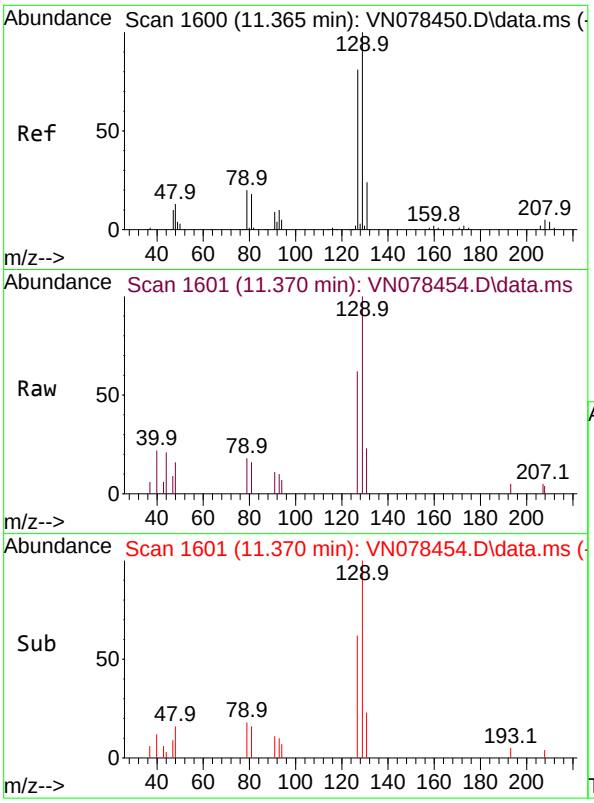


#59
2-Hexanone
Concen: 4.164 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 19374

Ion	Ratio	Lower	Upper
43	100		
58	57.9	31.7	95.1

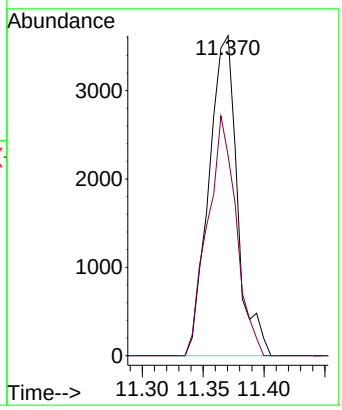




#60
Dibromochloromethane
Concen: 0.919 ug/l
RT: 11.370 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:129 Resp: 588

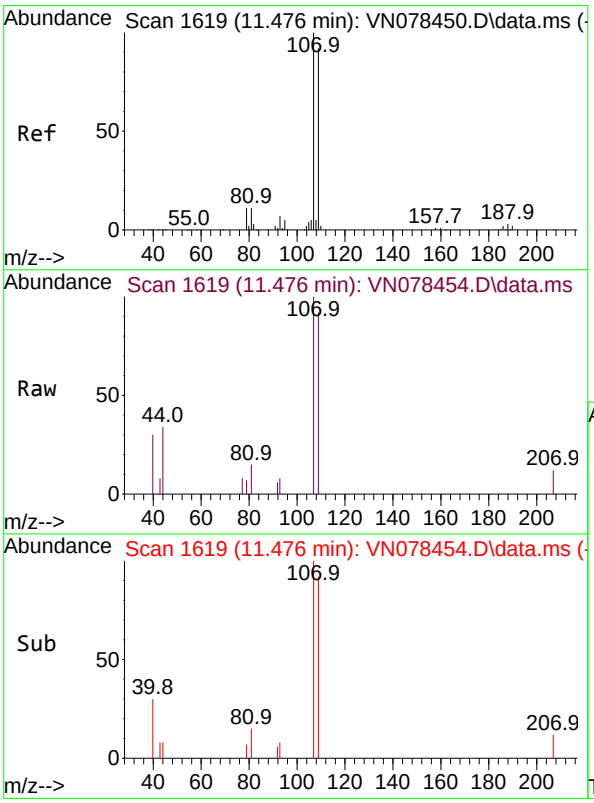
Ion	Ratio	Lower	Upper
129	100		
127	75.4	38.6	116.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

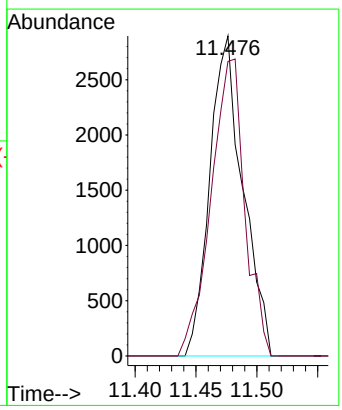
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

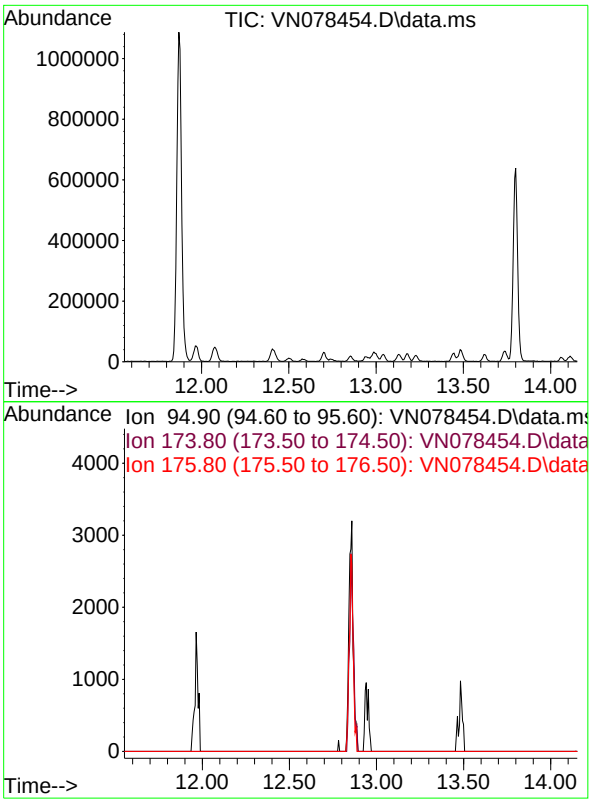


#61
1,2-Dibromoethane
Concen: 0.918 ug/l
RT: 11.476 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:107 Resp: 5487

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.6	114.8





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

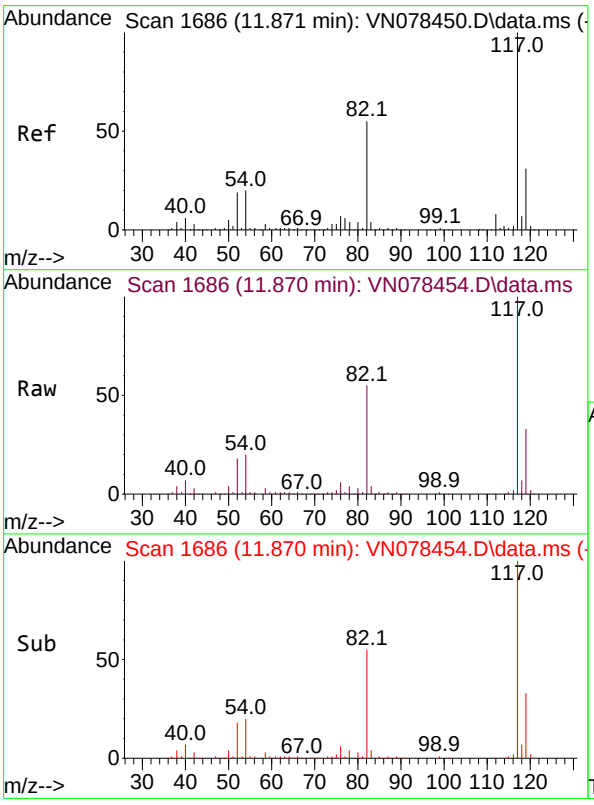
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	71.9
176	67.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

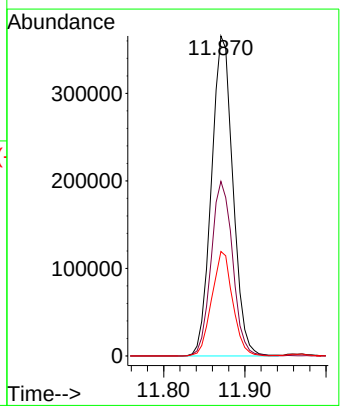
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

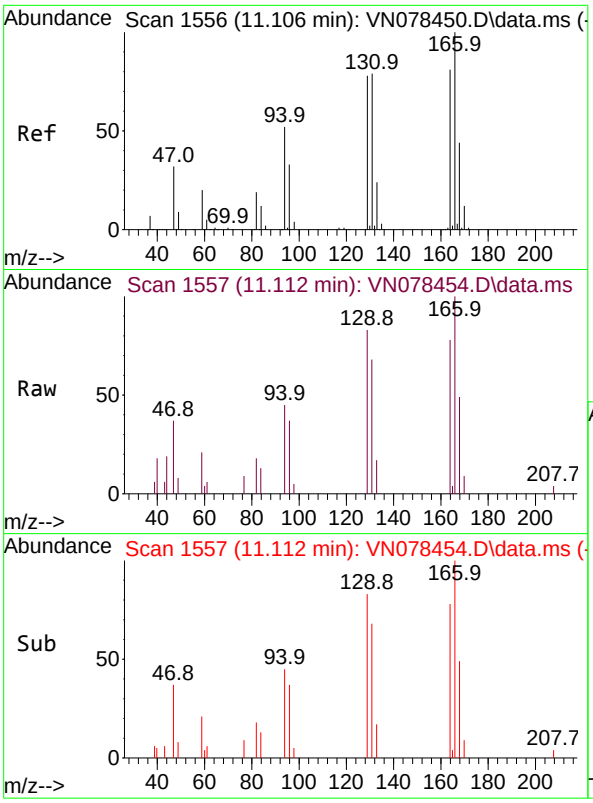


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:117 Resp: 672181

Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.0	66.0
119	32.6	25.6	38.4

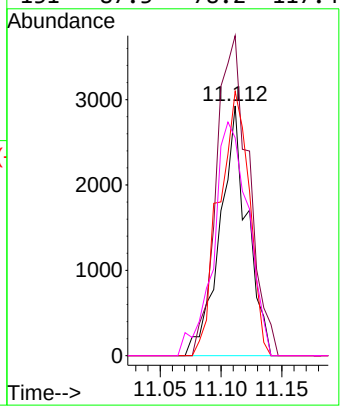




#64
Tetrachloroethene
Concen: 0.905 ug/l
RT: 11.112 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:164 Resp: 457

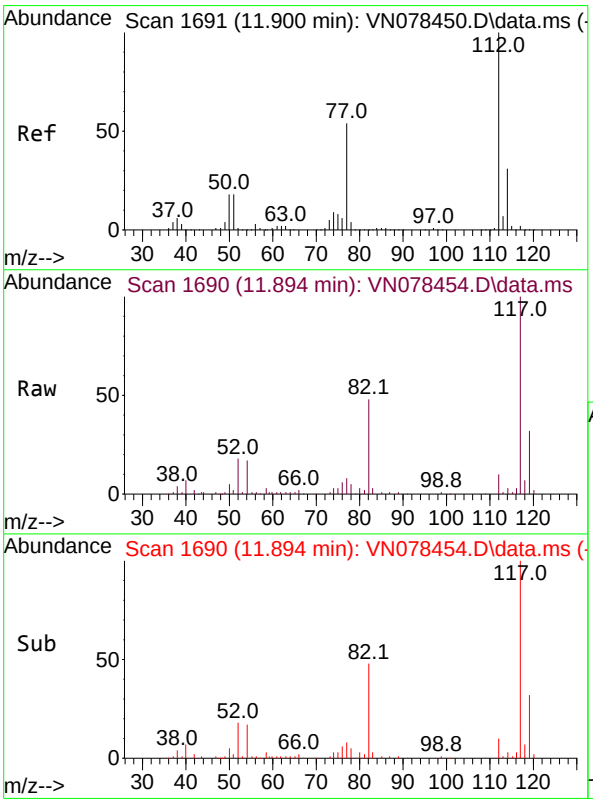
Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.4	152.0
129	105.8	82.4	123.6
131	87.3	78.2	117.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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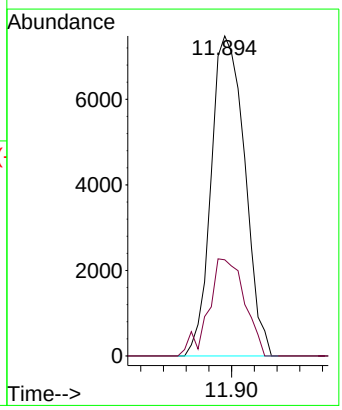
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

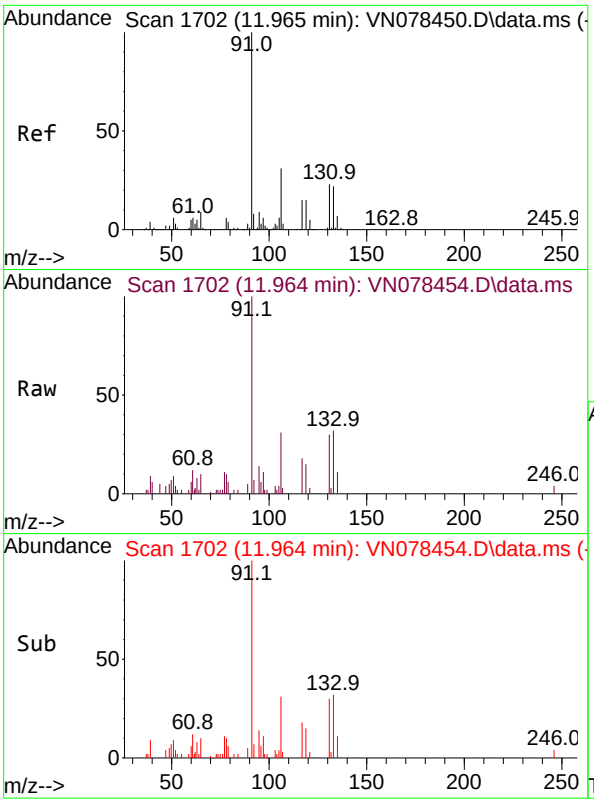


#65
Chlorobenzene
Concen: 1.022 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:112 Resp: 15354

Ion	Ratio	Lower	Upper
112	100		
114	30.1	25.0	37.4

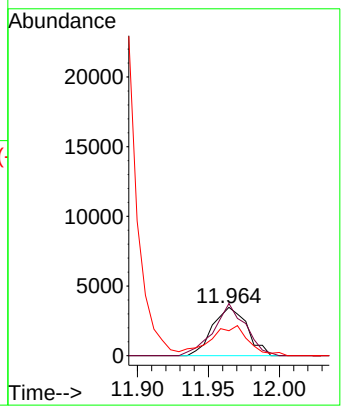




#66
1,1,1,2-Tetrachloroethane
Concen: 1.014 ug/l
RT: 11.964 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:131 Resp: 586

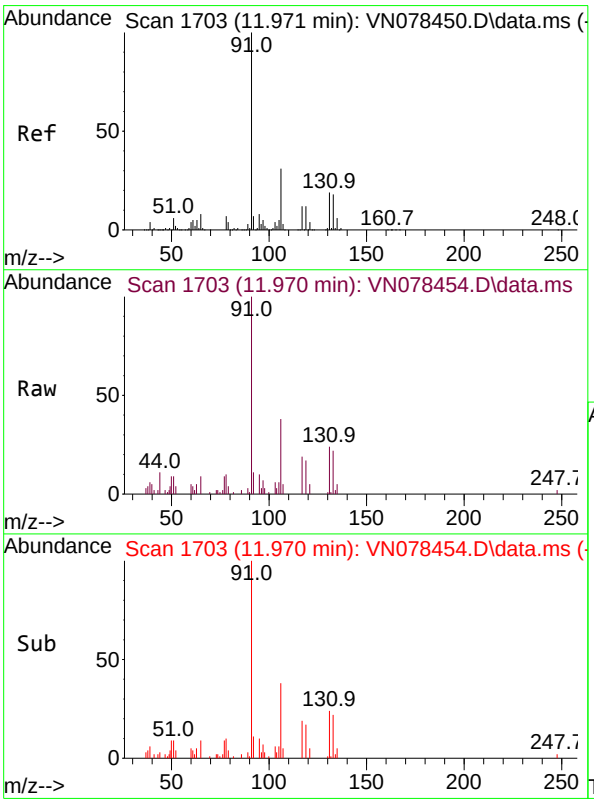
Ion	Ratio	Lower	Upper
131	100		
133	100.2	46.4	139.1
119	0.0	34.1	102.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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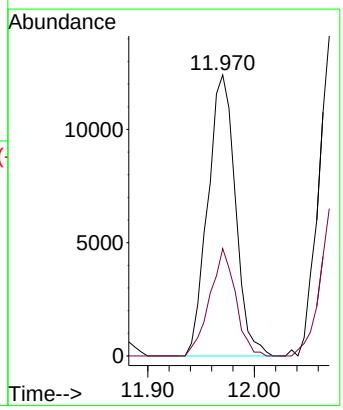
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

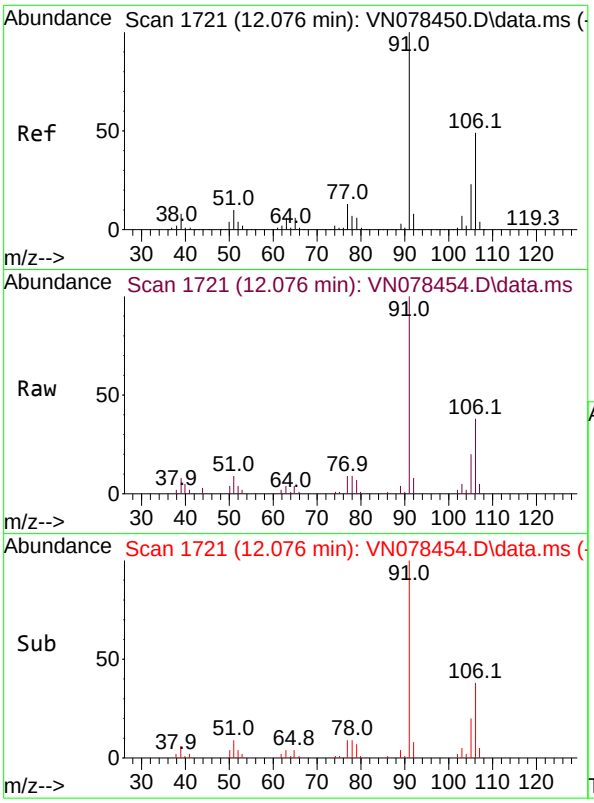


#67
Ethyl Benzene
Concen: 0.880 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 91 Resp: 22338

Ion	Ratio	Lower	Upper
91	100		
106	38.2	25.6	38.4





#68
m/p-Xylenes
Concen: 1.534 ug/l
RT: 12.076 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

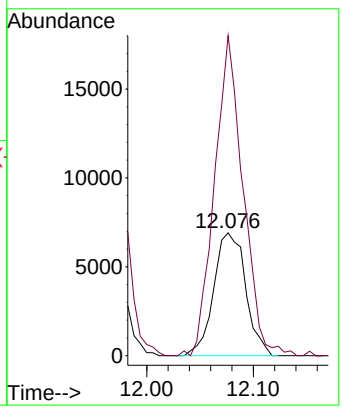
Tgt Ion:106 Resp: 1440

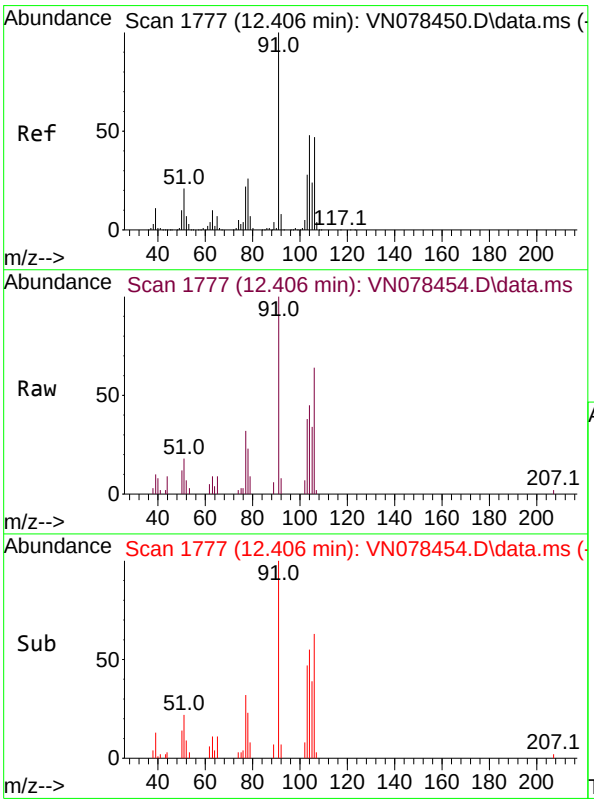
Ion	Ratio	Lower	Upper
106	100		
91	232.9	159.6	239.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

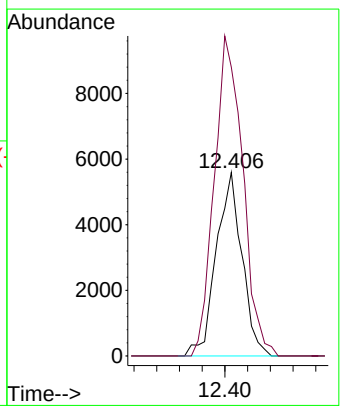


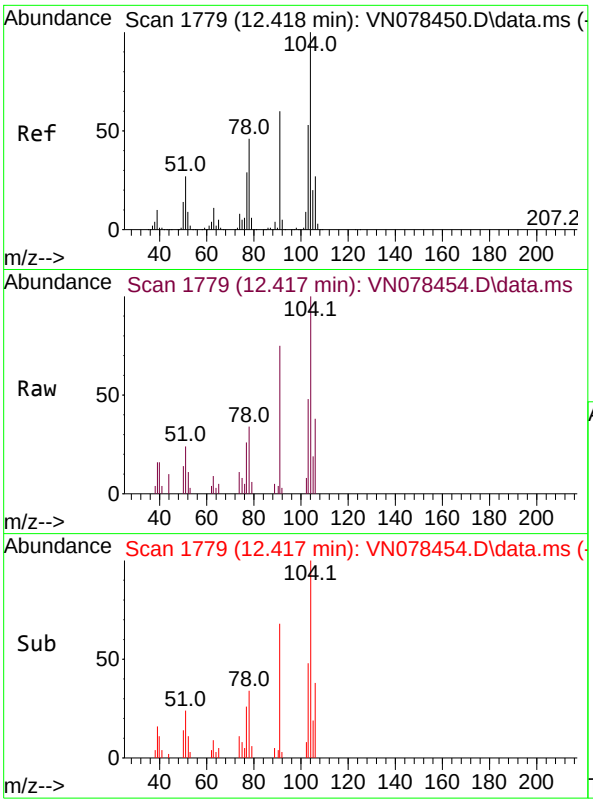


#69
o-Xylene
Concen: 0.928 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:106 Resp: 8798

Ion	Ratio	Lower	Upper
106	100		
91	193.1	105.2	315.5

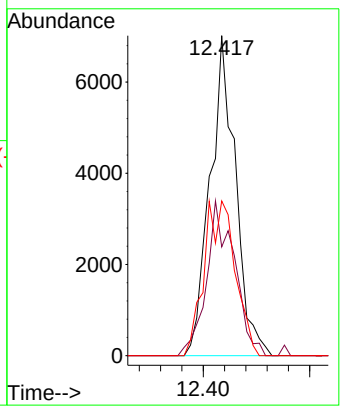




#70
Styrene
Concen: 0.785 ug/l
RT: 12.417 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:104 Resp: 1165

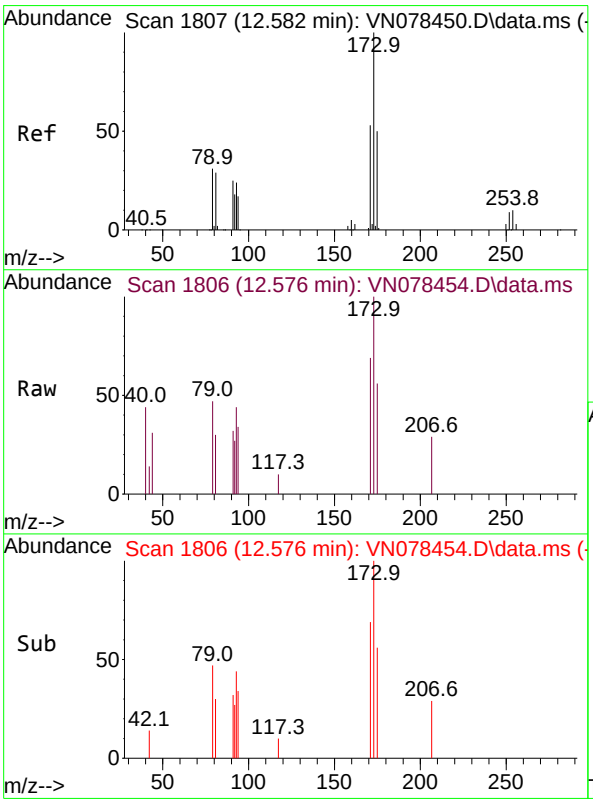
Ion	Ratio	Lower	Upper
104	100		
78	52.9	39.5	59.3
103	58.8	43.2	64.8



Instrument :
MSVOA_N
ClientSampleId :
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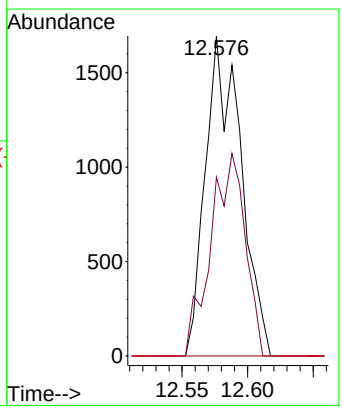
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

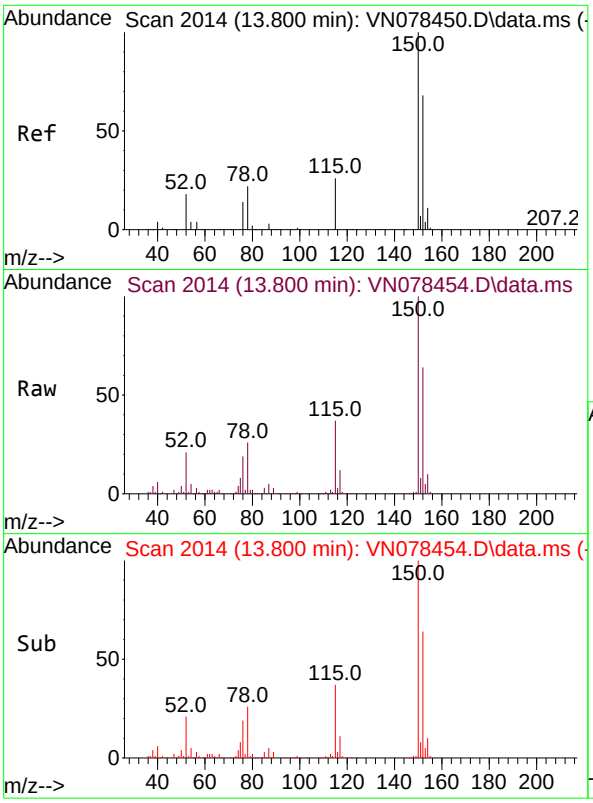


#71
Bromoform
Concen: 0.810 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:173 Resp: 3172

Ion	Ratio	Lower	Upper
173	100		
175	61.9	24.3	73.0
254	0.0	0.0	0.0

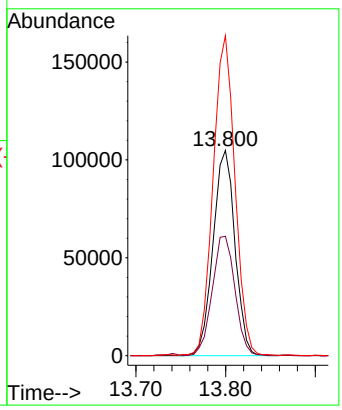




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:152 Resp: 17794

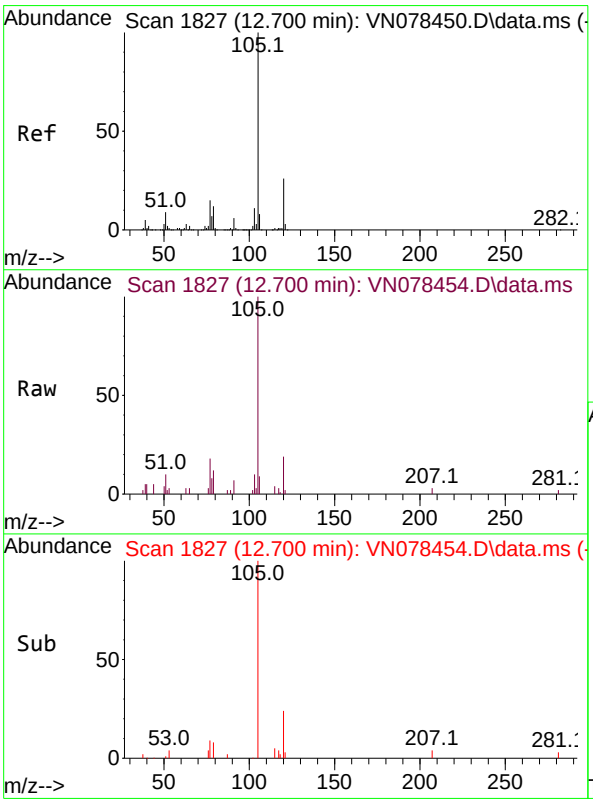
Ion	Ratio	Lower	Upper
152	100		
115	60.4	32.3	96.8
150	154.8	0.0	355.8



Instrument :
MSVOA_N
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Manual Integrations APPROVED

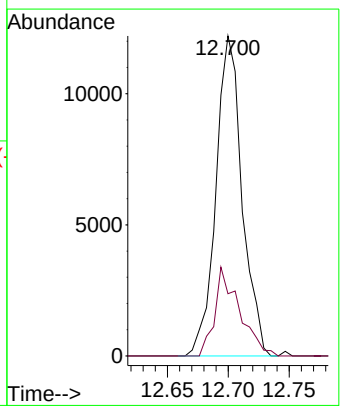
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

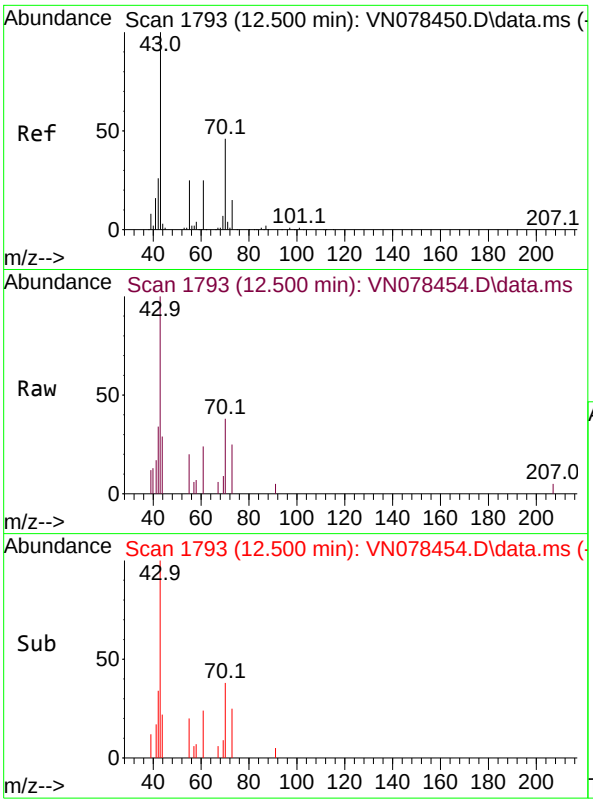


#73
Isopropylbenzene
Concen: 1.094 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:105 Resp: 18287

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.1	39.1

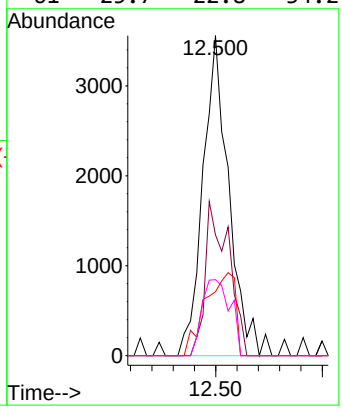




#74
N-amyl acetate
Concen: 1.047 ug/l
RT: 12.500 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 43 Resp: 603

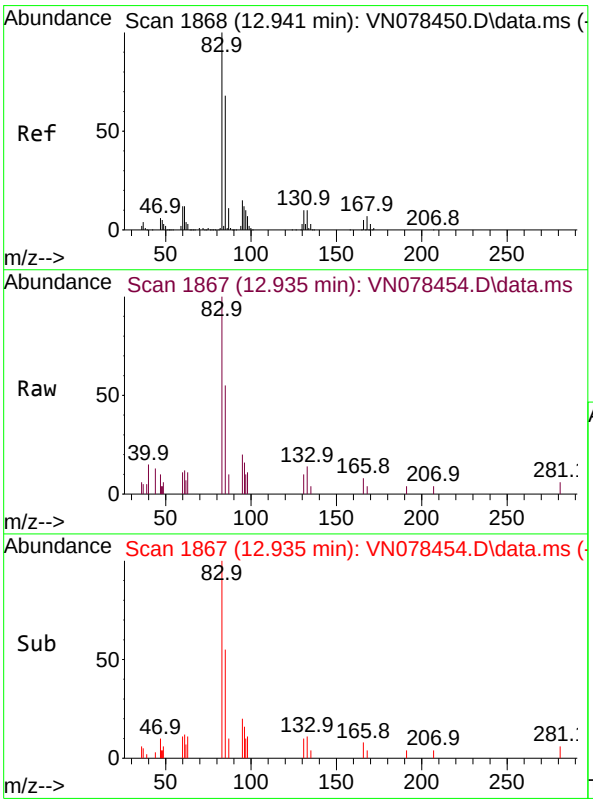
Ion	Ratio	Lower	Upper
43	100		
70	43.4	43.4	65.2
55	29.9	21.4	32.0
61	25.7	22.8	34.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

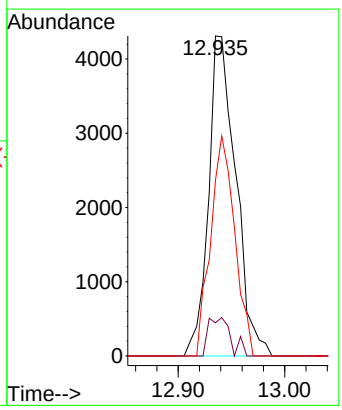
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

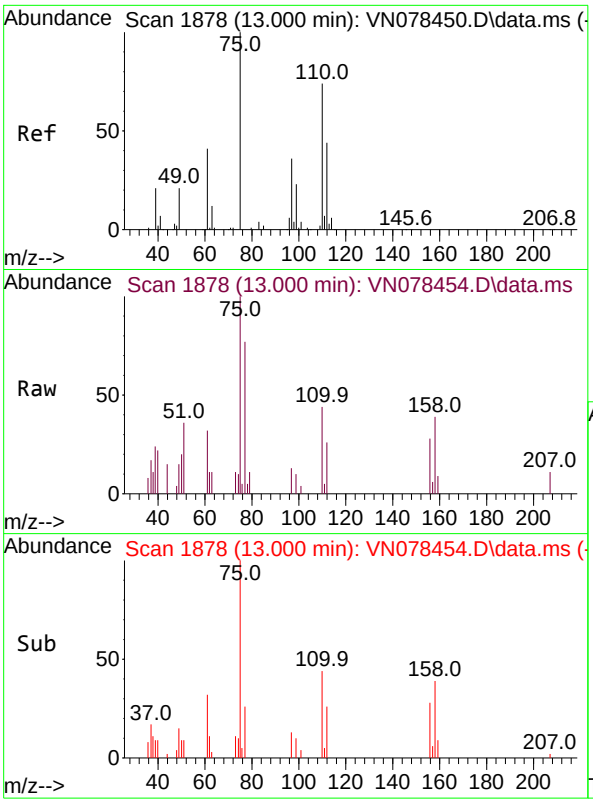


#75
1,1,2,2-Tetrachloroethane
Concen: 1.357 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 83 Resp: 7660

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	15.0
85	60.7	31.9	95.7





#76
1,2,3-Trichloropropane
Concen: 1.012 ug/l m
RT: 13.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

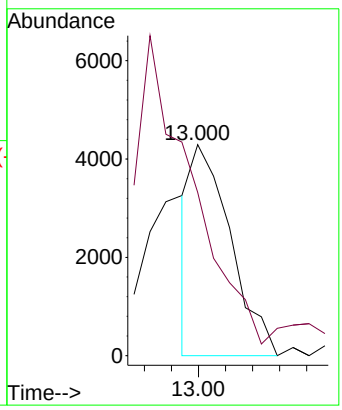
Tgt Ion: 75 Resp: 434

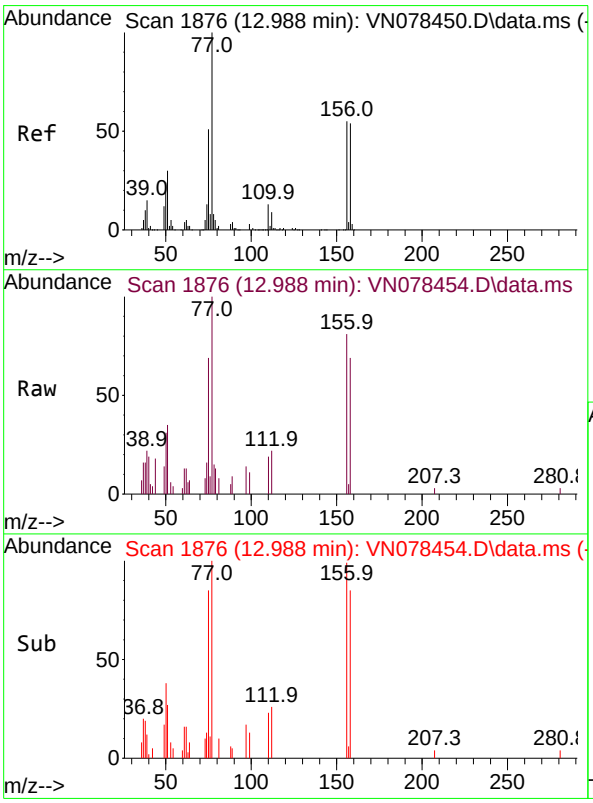
Ion	Ratio	Lower	Upper
75	100		
77	260.4	84.5	253.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/10/2023
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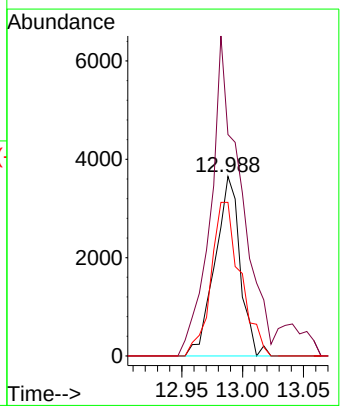


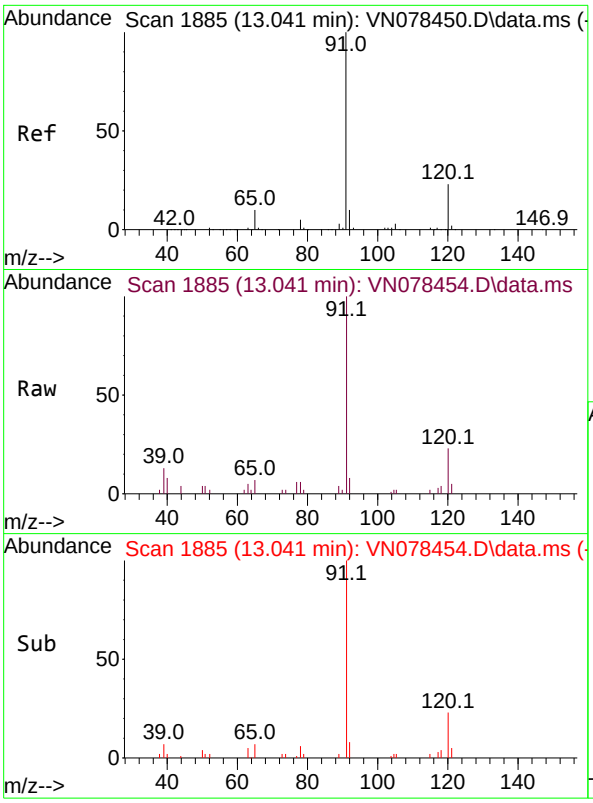


#77
Bromobenzene
Concen: 1.279 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:156 Resp: 5251

Ion	Ratio	Lower	Upper
156	100		
77	215.6	107.7	323.3
158	99.9	48.4	145.3

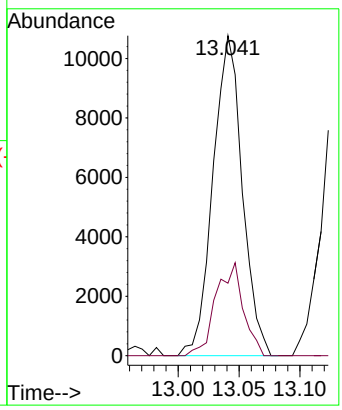




#78
n-propylbenzene
Concen: 1.010 ug/l
RT: 13.041 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 91 Resp: 1806

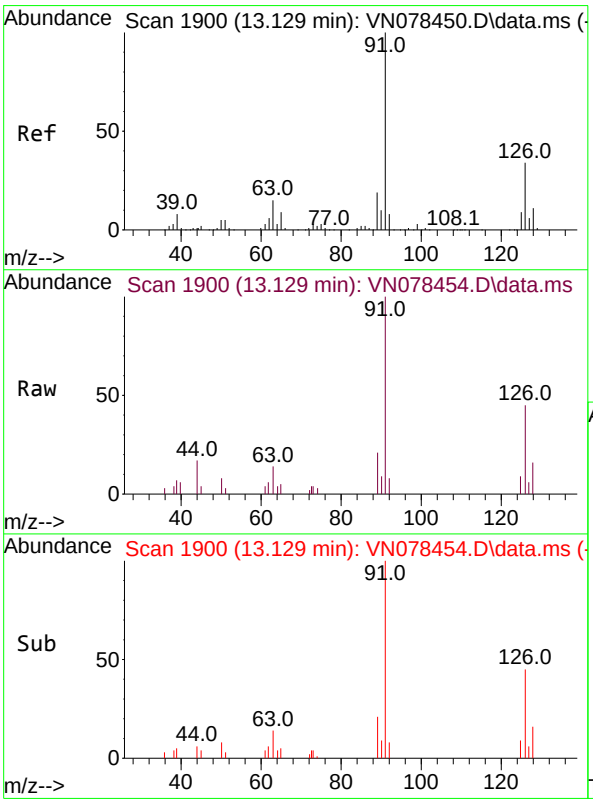
Ion	Ratio	Lower	Upper
91	100		
120	27.1	11.5	34.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

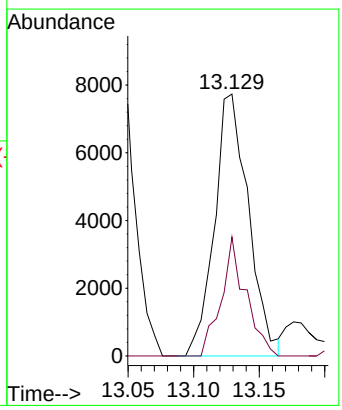
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

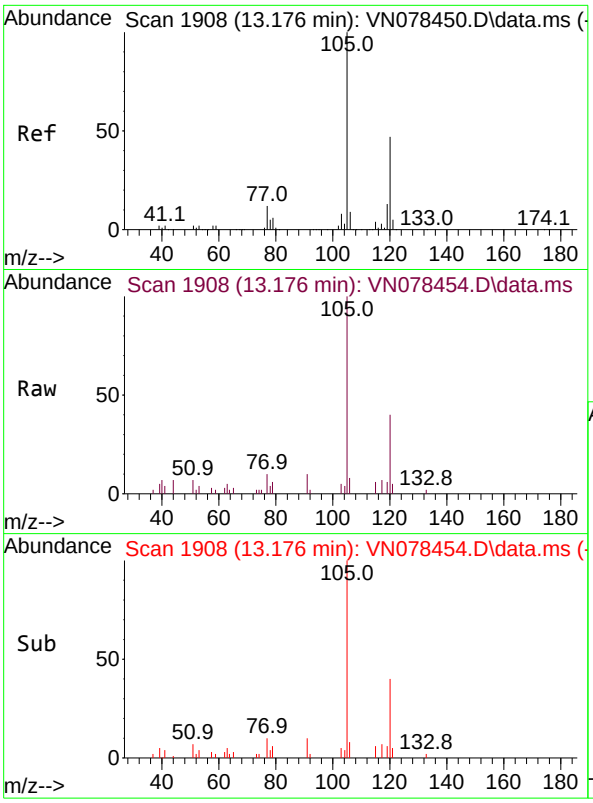


#79
2-Chlorotoluene
Concen: 1.189 ug/l
RT: 13.129 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 91 Resp: 13932

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.3	48.8

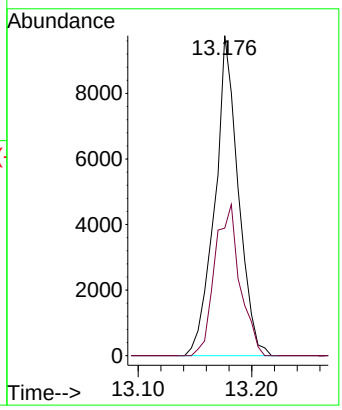




#80
1,3,5-Trimethylbenzene
Concen: 1.062 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:105 Resp: 1402

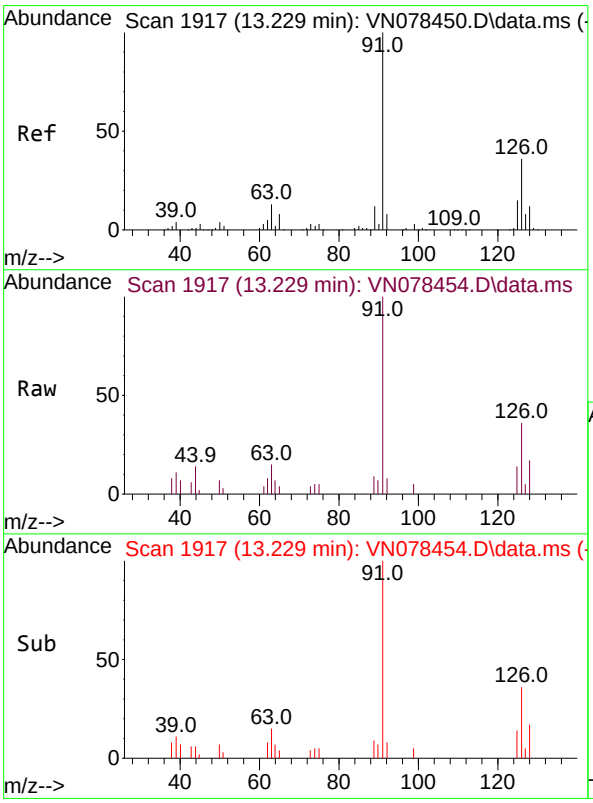
Ion	Ratio	Lower	Upper
105	100		
120	50.6	24.1	72.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

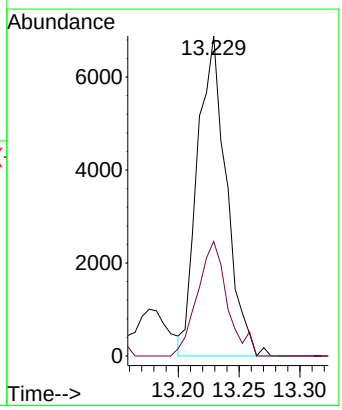
Reviewed By :John Carlone 07/10/2023
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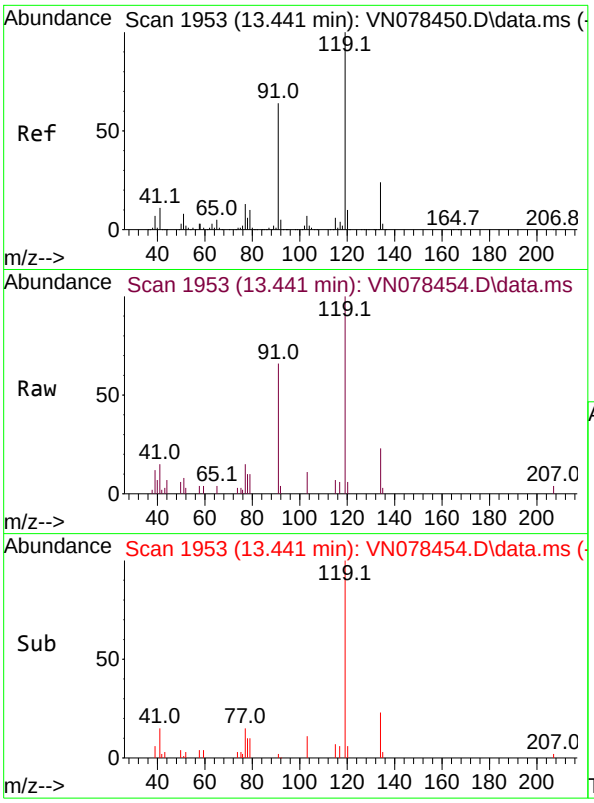


#82
4-Chlorotoluene
Concen: 1.037 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 91 Resp: 11336

Ion	Ratio	Lower	Upper
91	100		
126	37.0	16.7	50.0

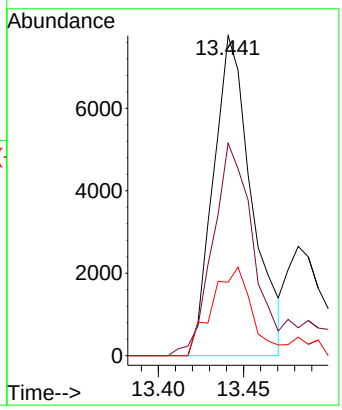




#83
tert-Butylbenzene
Concen: 1.084 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:119 Resp: 1215

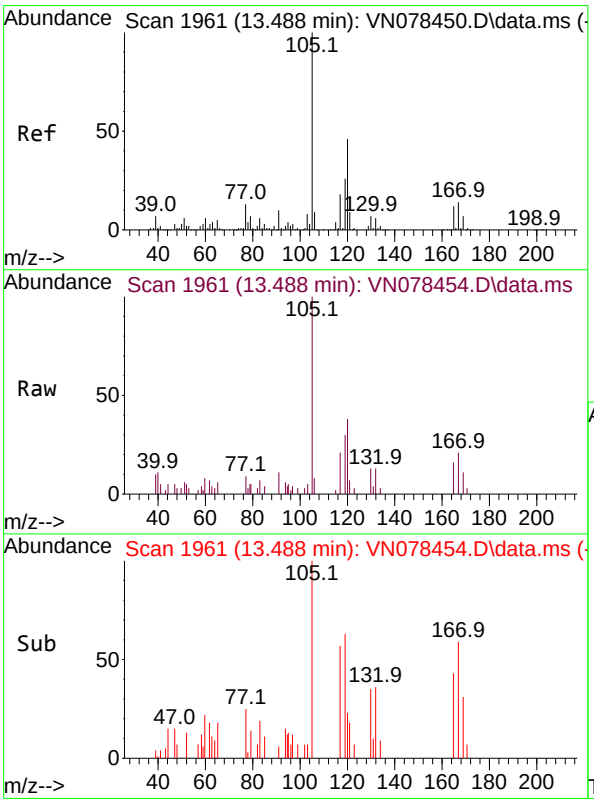
Ion	Ratio	Lower	Upper
119	100		
91	81.1	33.9	101.7
134	28.8	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

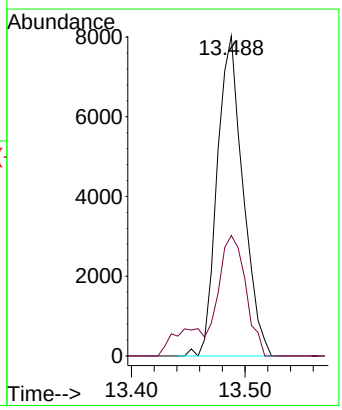
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

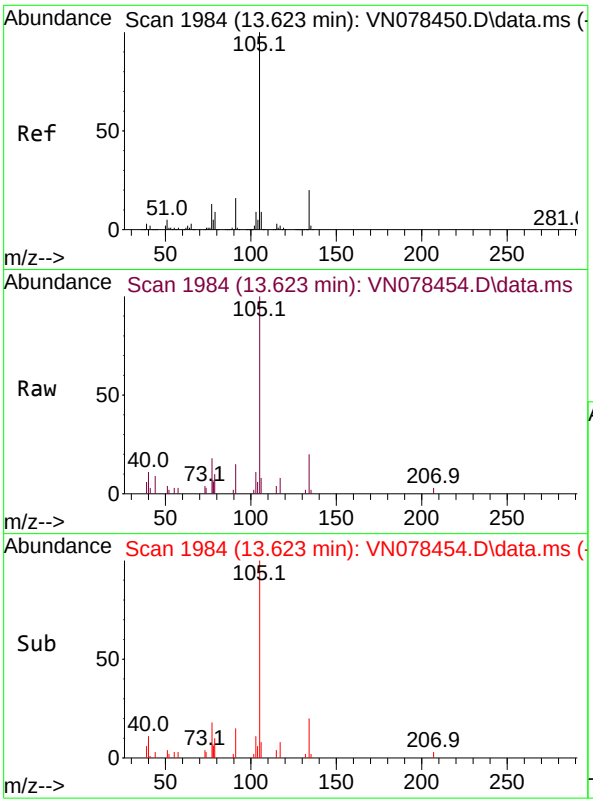


#84
1,2,4-Trimethylbenzene
Concen: 0.987 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:105 Resp: 12669

Ion	Ratio	Lower	Upper
105	100		
120	39.4	22.0	66.0





#85
sec-Butylbenzene
Concen: 1.052 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

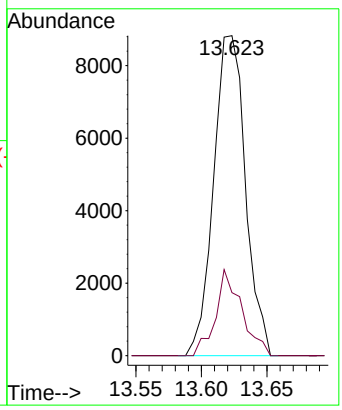
Tgt Ion:105 Resp: 1491

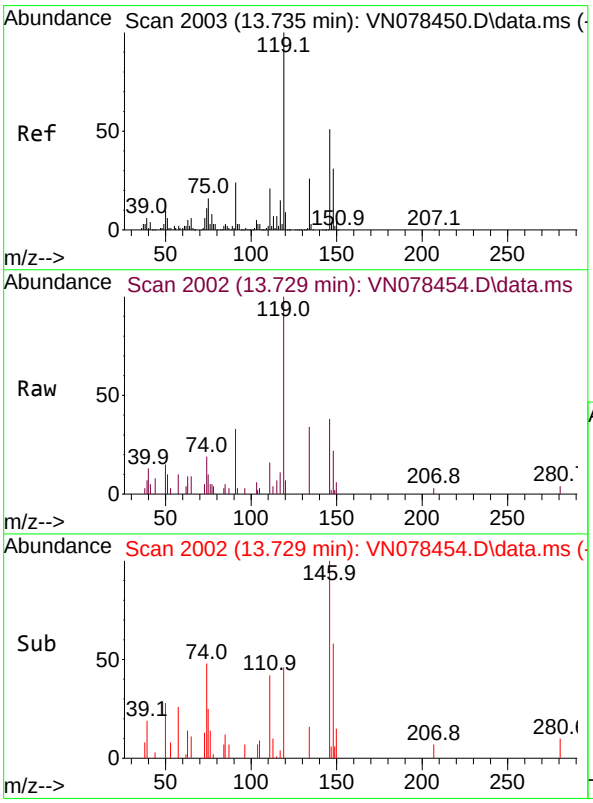
Ion	Ratio	Lower	Upper
105	100		
134	22.1	9.8	29.3

Instrument :
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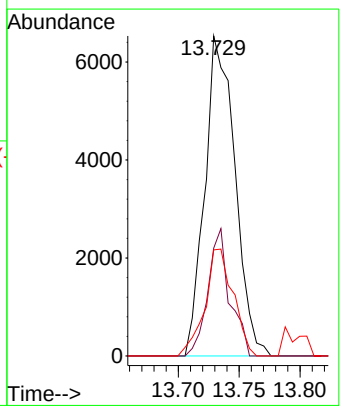


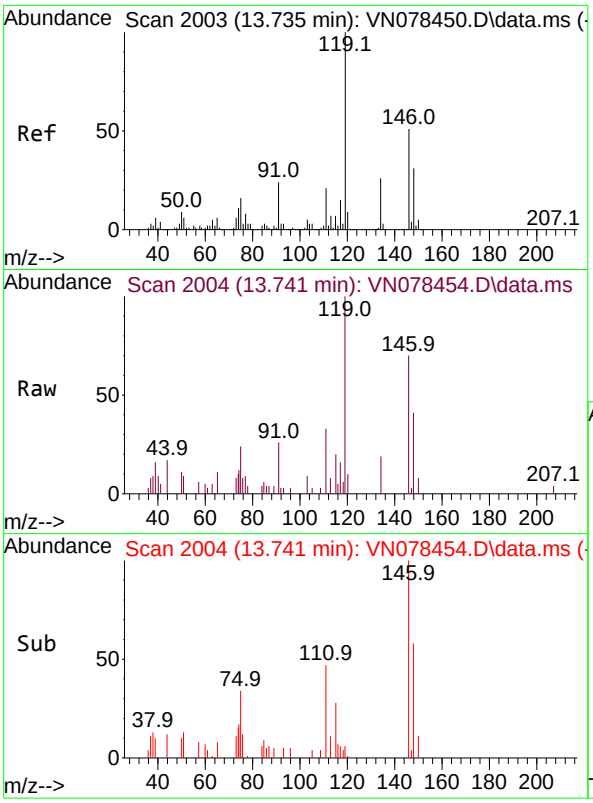


#86
p-Isopropyltoluene
Concen: 0.988 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:119 Resp: 11243

Ion	Ratio	Lower	Upper
119	100		
134	28.8	12.6	37.8
91	31.3	12.4	37.2

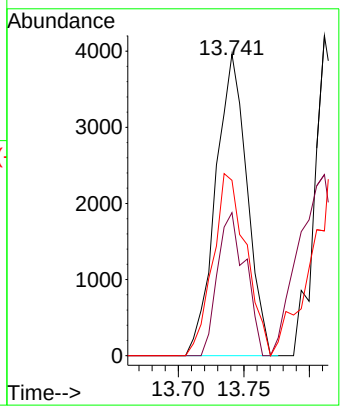




#87
1,3-Dichlorobenzene
Concen: 1.028 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:146 Resp: 660

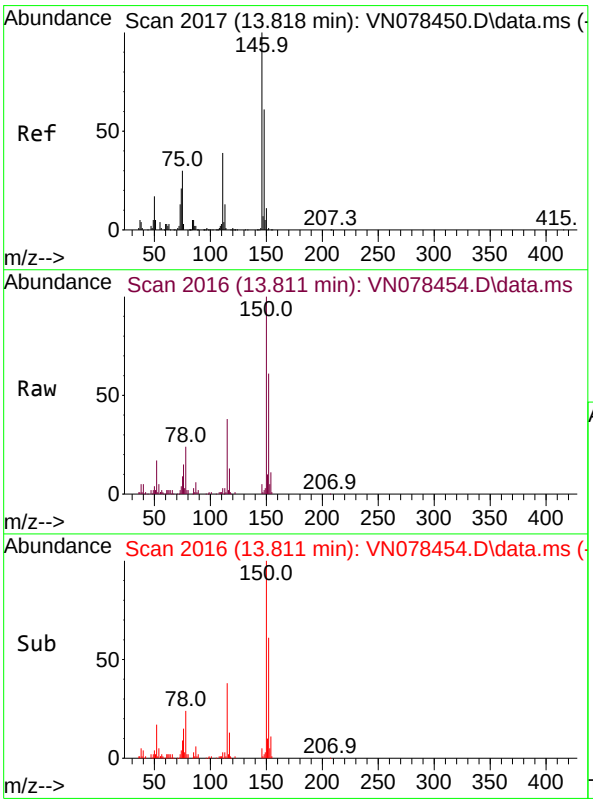
Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.1	66.3
148	63.7	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

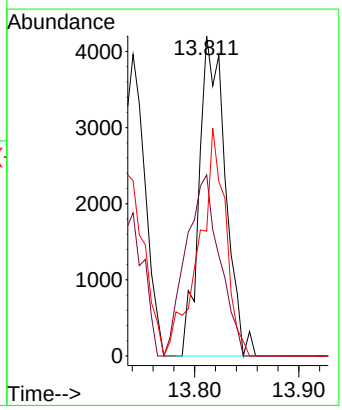
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

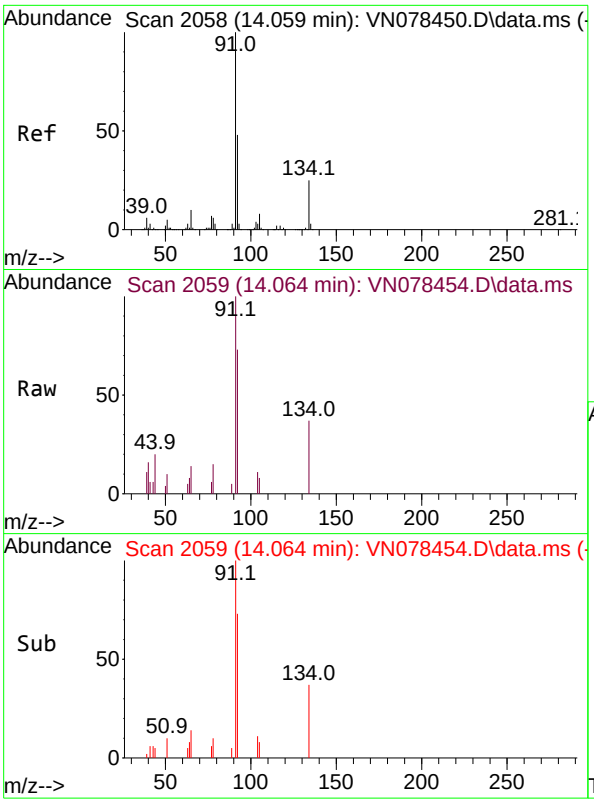


#88
1,4-Dichlorobenzene
Concen: 1.136 ug/l m
RT: 13.811 min Scan# 2016
Delta R.T. -0.007 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:146 Resp: 7347

Ion	Ratio	Lower	Upper
146	100		
111	37.8	20.6	61.8
148	57.2	31.6	94.8

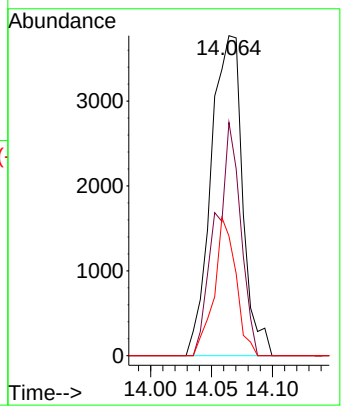




#89
n-Butylbenzene
Concen: 0.833 ug/l
RT: 14.064 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 91 Resp: 678

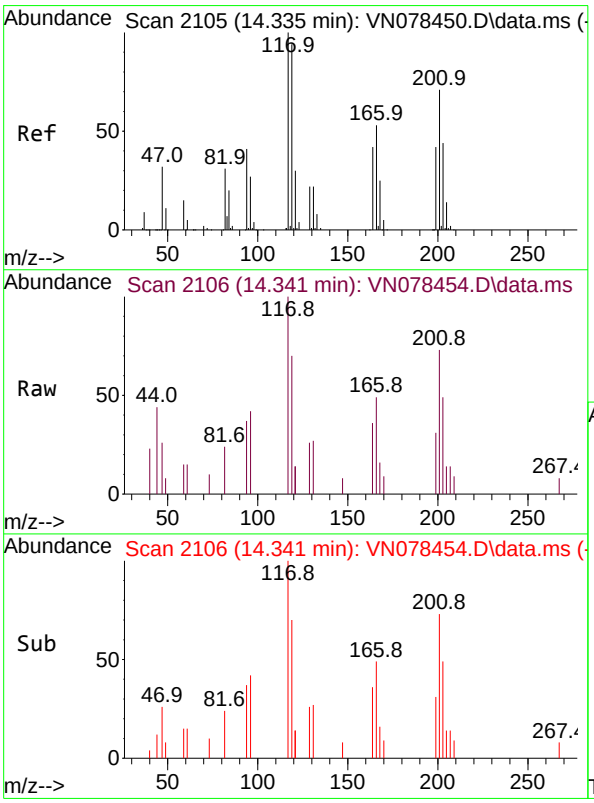
Ion	Ratio	Lower	Upper
91	100		
92	57.6	26.4	79.0
134	29.9	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

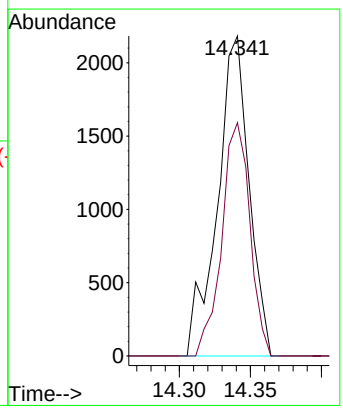
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

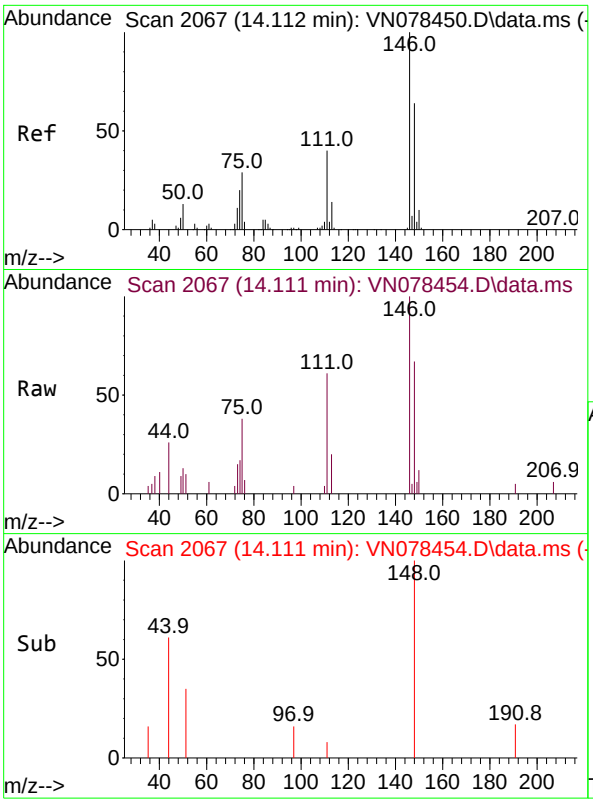


#90
Hexachloroethane
Concen: 0.817 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:117 Resp: 3389

Ion	Ratio	Lower	Upper
117	100		
201	64.5	29.3	88.0

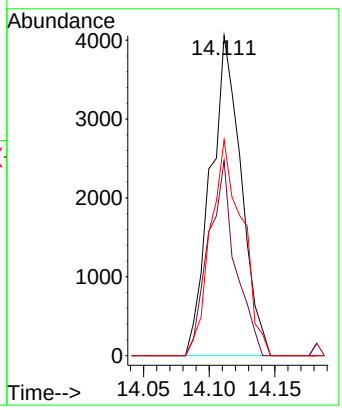




#91
1,2-Dichlorobenzene
Concen: 1.030 ug/l
RT: 14.111 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:146 Resp: 658

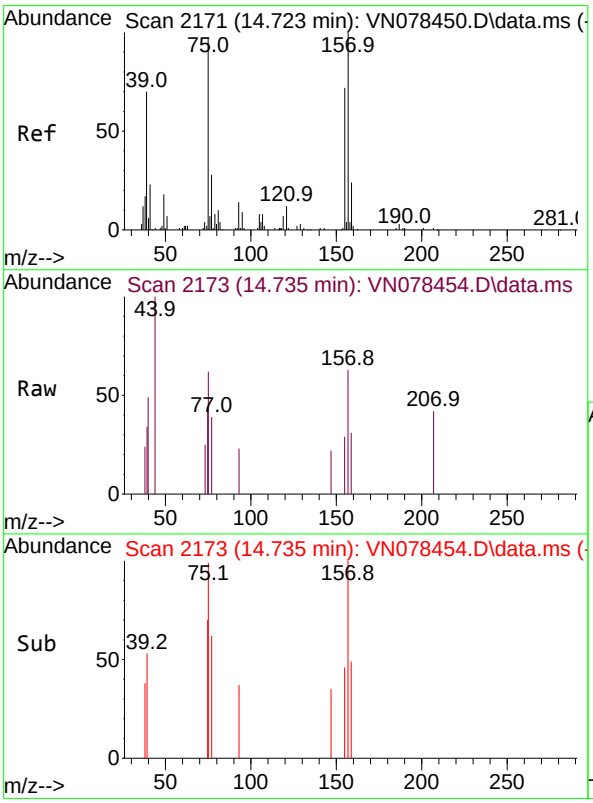
Ion	Ratio	Lower	Upper
146	100		
111	53.7	22.0	66.0
148	70.1	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

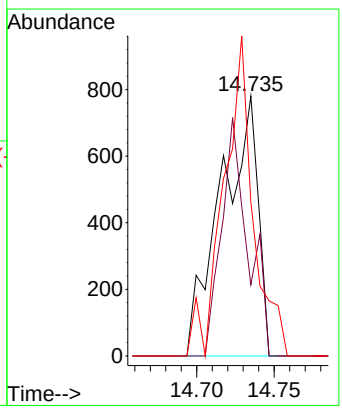
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

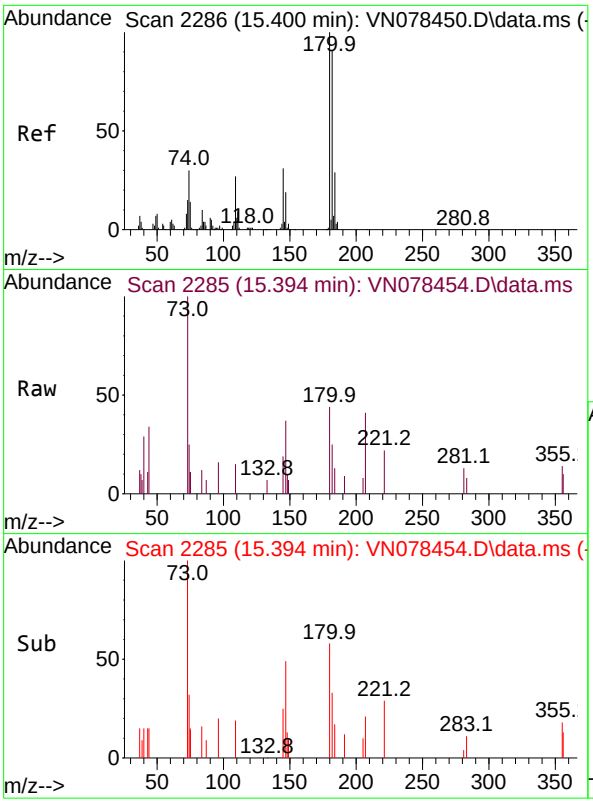


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.395 ug/l
RT: 14.735 min Scan# 2173
Delta R.T. 0.012 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion: 75 Resp: 1298

Ion	Ratio	Lower	Upper
75	100		
155	65.1	39.1	117.2
157	98.0	50.3	150.9

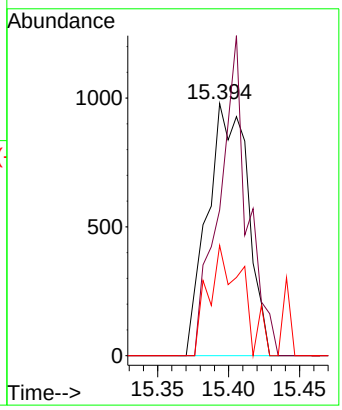




#93
1,2,4-Trichlorobenzene
Concen: 0.951 ug/l
RT: 15.394 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:180 Resp: 193

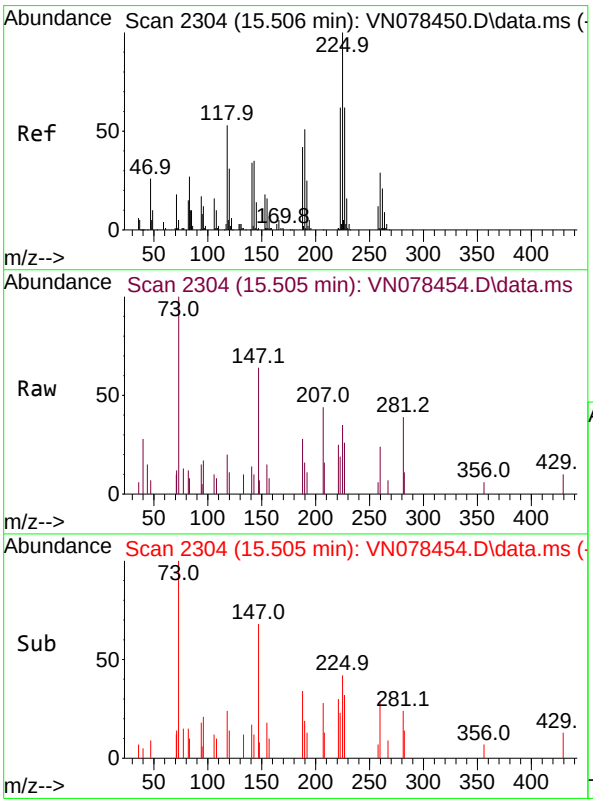
Ion	Ratio	Lower	Upper
180	100		
182	89.2	46.1	138.2
145	37.1	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

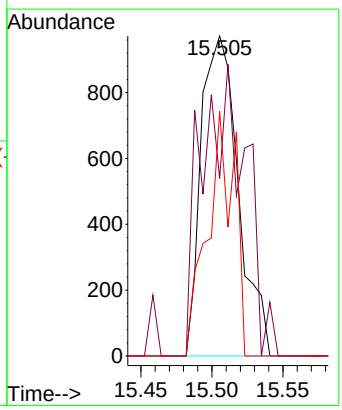
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023

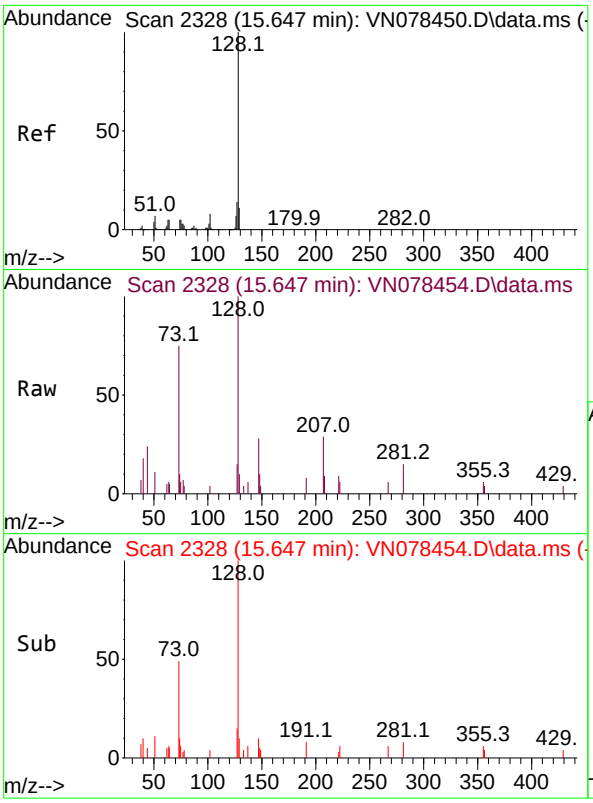


#94
Hexachlorobutadiene
Concen: 1.329 ug/l
RT: 15.505 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:225 Resp: 1773

Ion	Ratio	Lower	Upper
225	100		
223	51.2	31.3	93.8
227	55.2	31.9	95.9

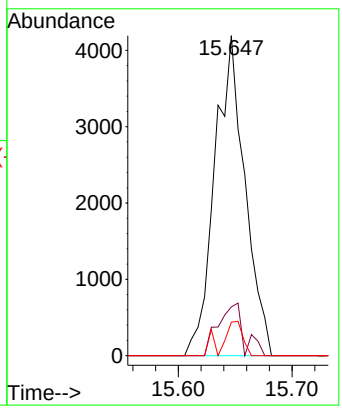




#95
Naphthalene
Concen: 1.112 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:128 Resp: 775

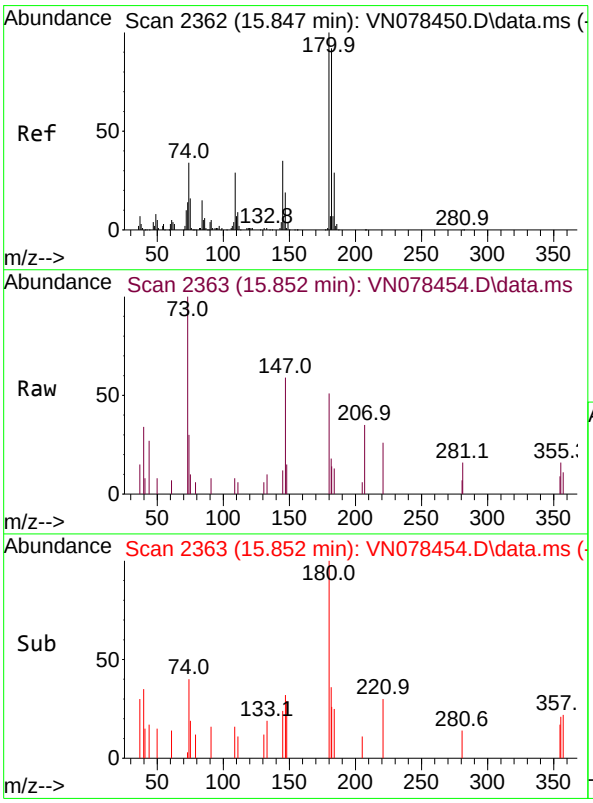
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.0	15.0
129	5.7	8.7	13.1#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

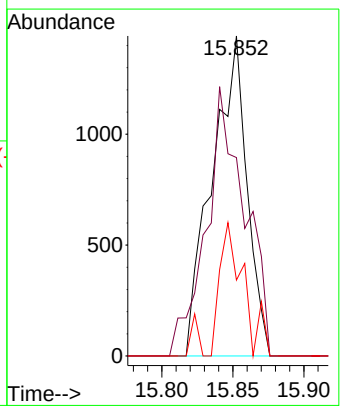
Reviewed By :John Carlone 07/10/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 1.053 ug/l
RT: 15.852 min Scan# 2363
Delta R.T. 0.005 min
Lab File: VN078454.D
Acq: 10 Jul 2023 14:46

Tgt Ion:180 Resp: 2469

Ion	Ratio	Lower	Upper
180	100		
182	92.5	46.2	138.6
145	28.5	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	528809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	894994	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	798638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	333955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	345961	48.801	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.600%			
35) Dibromofluoromethane	8.177	113	307254	50.573	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.140%			
50) Toluene-d8	10.571	98	1169443	50.953	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.900%			
62) 4-Bromofluorobenzene	12.853	95	368551	52.132	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	279928	43.175	ug/l	96
3) Chloromethane	2.371	50	321424	45.612	ug/l	99
4) Vinyl Chloride	2.518	62	425744	46.703	ug/l	97
5) Bromomethane	2.942	94	269307	46.343	ug/l	96
6) Chloroethane	3.118	64	259254	46.895	ug/l	100
7) Trichlorofluoromethane	3.495	101	498754	45.769	ug/l	98
8) Diethyl Ether	3.971	74	168828	46.501	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.371	101	266861	46.262	ug/l	97
10) Methyl Iodide	4.595	142	373684	47.142	ug/l	96
11) Tert butyl alcohol	5.536	59	247395	226.307	ug/l	99
12) 1,1-Dichloroethene	4.342	96	256230	45.920	ug/l	93
13) Acrolein	4.189	56	235428	218.892	ug/l	95
14) Allyl chloride	5.036	41	372034	48.794	ug/l	96
15) Acrylonitrile	5.730	53	644377	233.296	ug/l	99
16) Acetone	4.436	43	608092	275.366	ug/l	98
17) Carbon Disulfide	4.712	76	720224	44.637	ug/l	96
18) Methyl Acetate	5.036	43	414097	44.297	ug/l	90
19) Methyl tert-butyl Ether	5.806	73	871414	47.399	ug/l	97
20) Methylene Chloride	5.283	84	306926	48.416	ug/l	91
21) trans-1,2-Dichloroethene	5.800	96	289530	46.046	ug/l	87
22) Diisopropyl ether	6.683	45	834818	48.898	ug/l	95
23) Vinyl Acetate	6.612	43	2687024	247.568	ug/l #	90
24) 1,1-Dichloroethane	6.577	63	527638	45.865	ug/l	98
25) 2-Butanone	7.488	43	868947	249.973	ug/l #	86
26) 2,2-Dichloropropane	7.500	77	477212	50.718	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	345014	47.431	ug/l	93
28) Bromochloromethane	7.818	49	232983	42.998	ug/l	92
29) Tetrahydrofuran	7.847	42	530795	232.708	ug/l	86
30) Chloroform	7.971	83	575675	48.065	ug/l	97
31) Cyclohexane	8.265	56	430606	44.945	ug/l	90
32) 1,1,1-Trichloroethane	8.177	97	508638	47.368	ug/l	95
36) 1,1-Dichloropropene	8.377	75	431213	49.155	ug/l	97
37) Ethyl Acetate	7.571	43	354553	48.483	ug/l #	95
38) Carbon Tetrachloride	8.371	117	459176	48.160	ug/l	100
39) Methylcyclohexane	9.606	83	406419	50.755	ug/l	92
40) Benzene	8.612	78	1262934	48.595	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	175098	46.968	ug/l		93
42) 1,2-Dichloroethane	8.677	62	419227	47.424	ug/l		99
43) Isopropyl Acetate	8.694	43	595909	49.495	ug/l		94
44) Trichloroethene	9.359	130	331665	47.350	ug/l		93
45) 1,2-Dichloropropane	9.630	63	320943	48.758	ug/l		97
46) Dibromomethane	9.718	93	225919	48.764	ug/l		93
47) Bromodichloromethane	9.894	83	455420	49.039	ug/l		100
48) Methyl methacrylate	9.688	41	276133	49.505	ug/l		88
49) 1,4-Dioxane	9.700	88	121014	994.827	ug/l		94
51) 4-Methyl-2-Pentanone	10.453	43	1765834	246.578	ug/l		94
52) Toluene	10.635	92	803101	49.859	ug/l		97
53) t-1,3-Dichloropropene	10.841	75	482793	50.745	ug/l		100
54) cis-1,3-Dichloropropene	10.318	75	523230	51.593	ug/l		98
55) 1,1,2-Trichloroethane	11.024	97	312419	49.229	ug/l		96
56) Ethyl methacrylate	10.882	69	458888	51.727	ug/l		93
57) 1,3-Dichloropropane	11.171	76	522939	48.463	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.165	63	819605	259.244	ug/l		93
59) 2-Hexanone	11.200	43	1317798	258.916	ug/l		93
60) Dibromochloromethane	11.365	129	346514	49.458	ug/l		98
61) 1,2-Dibromoethane	11.476	107	321543	49.185	ug/l		98
64) Tetrachloroethene	11.112	164	291480	48.545	ug/l		99
65) Chlorobenzene	11.894	112	860680	48.214	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.965	131	327131	47.635	ug/l		98
67) Ethyl Benzene	11.971	91	1520856	50.401	ug/l		100
68) m/p-Xylenes	12.076	106	1158045	103.800	ug/l		98
69) o-Xylene	12.406	106	564591	50.103	ug/l		98
70) Styrene	12.418	104	929871	52.745	ug/l		99
71) Bromoform	12.582	173	233386	50.180	ug/l	#	98
73) Isopropylbenzene	12.700	105	1398310	44.561	ug/l		99
74) N-amyl acetate	12.500	43	468909	43.361	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.941	83	431310	49.159	ug/l		99
76) 1,2,3-Trichloropropane	13.000	75	348837m	43.215	ug/l		
77) Bromobenzene	12.988	156	335515	49.140	ug/l		95
78) n-propylbenzene	13.041	91	1609138	47.950	ug/l		99
79) 2-Chlorotoluene	13.129	91	979494	44.560	ug/l		97
80) 1,3,5-Trimethylbenzene	13.176	105	1137852	45.892	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	156117	50.823	ug/l		93
82) 4-Chlorotoluene	13.229	91	958209	46.728	ug/l		98
83) tert-Butylbenzene	13.441	119	945504	44.916	ug/l		97
84) 1,2,4-Trimethylbenzene	13.488	105	1119919	46.502	ug/l		98
85) sec-Butylbenzene	13.623	105	1238077	46.531	ug/l		100
86) p-Isopropyltoluene	13.735	119	1027718	48.103	ug/l		98
87) 1,3-Dichlorobenzene	13.741	146	562840	46.722	ug/l		98
88) 1,4-Dichlorobenzene	13.817	146	562080	46.323	ug/l		99
89) n-Butylbenzene	14.065	91	768508	50.273	ug/l		98
90) Hexachloroethane	14.341	117	189853	48.320	ug/l		85
91) 1,2-Dichlorobenzene	14.112	146	549428	45.830	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	69349	46.010	ug/l		91
93) 1,2,4-Trichlorobenzene	15.400	180	185986	48.609	ug/l		98
94) Hexachlorobutadiene	15.506	225	100103	50.626	ug/l		98
95) Naphthalene	15.647	128	552670	42.252	ug/l		99
96) 1,2,3-Trichlorobenzene	15.847	180	196132	44.581	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

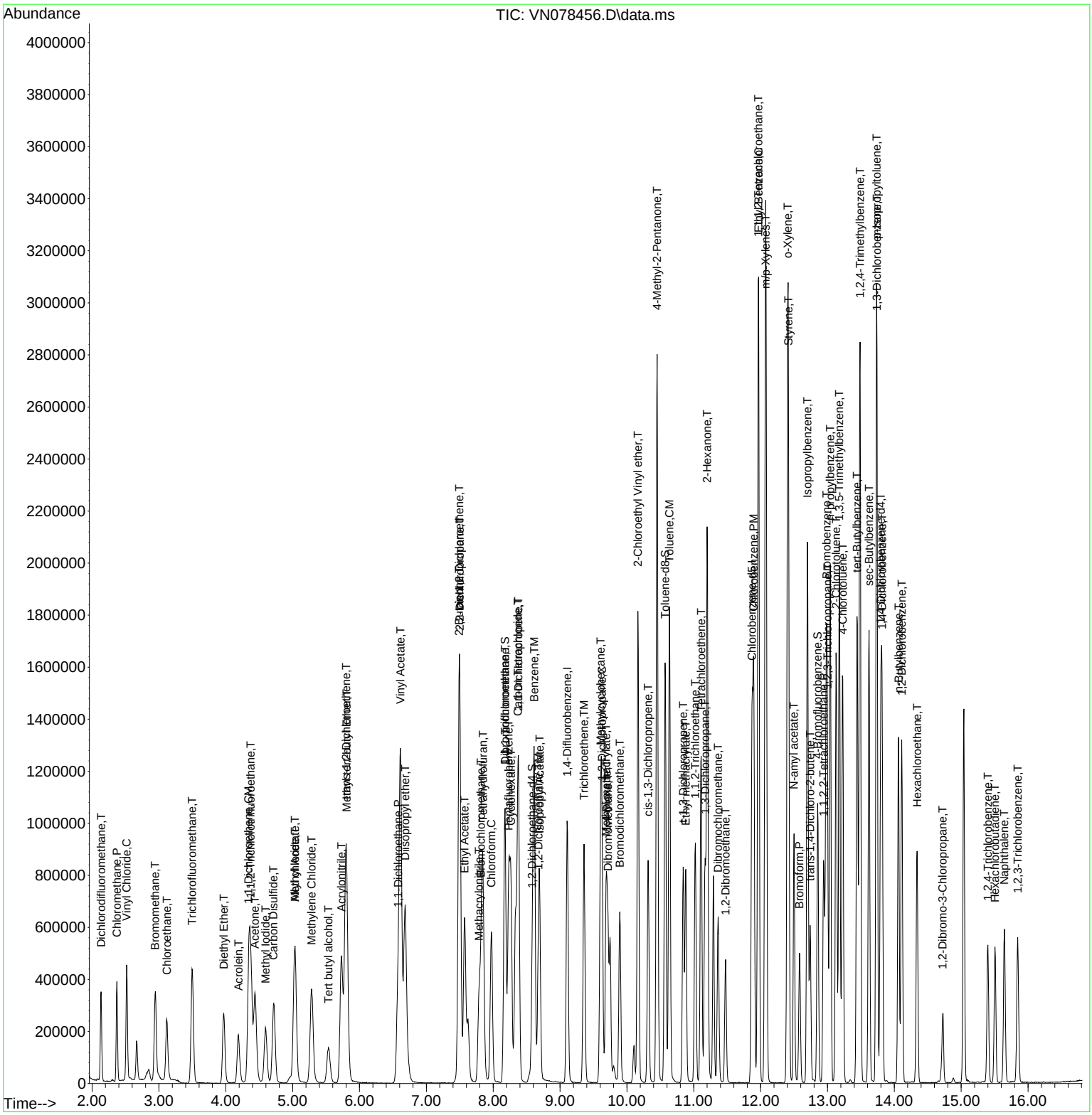
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

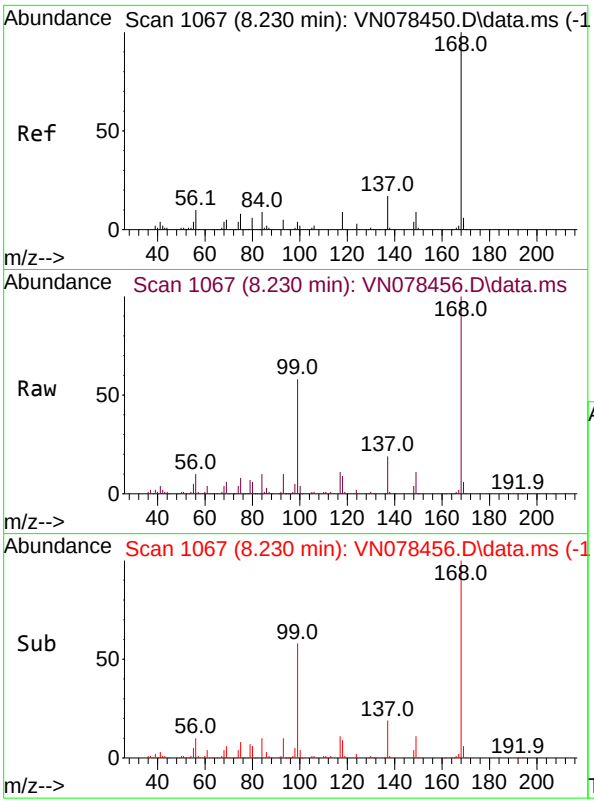
Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

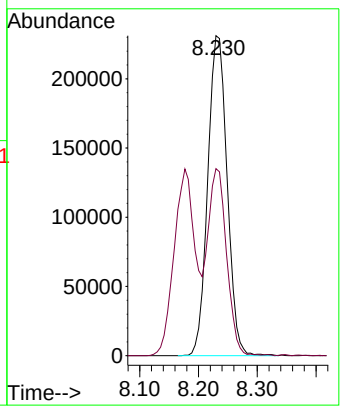




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:168 Resp: 52880

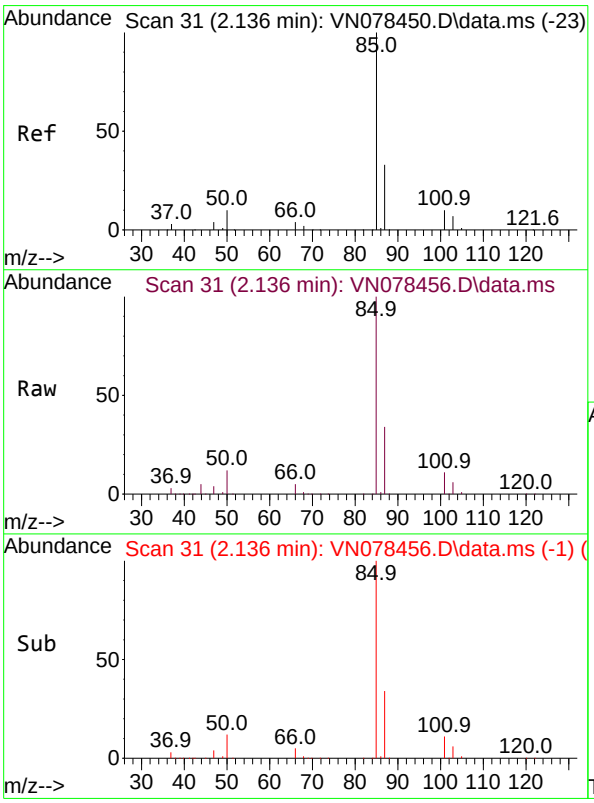
Ion	Ratio	Lower	Upper
168	100		
99	58.3	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

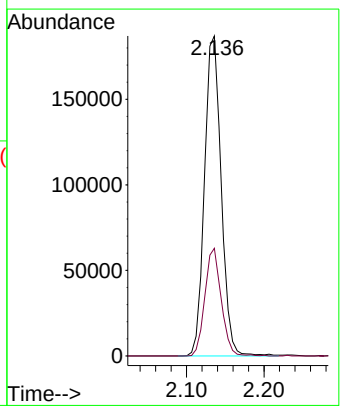
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

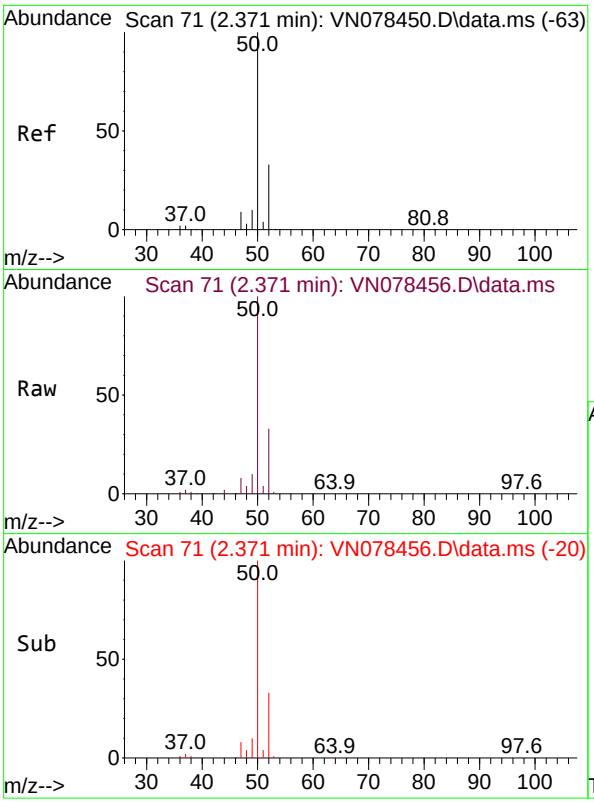


#2
Dichlorodifluoromethane
Concen: 43.175 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 85 Resp: 279928

Ion	Ratio	Lower	Upper
85	100		
87	33.7	15.8	47.4

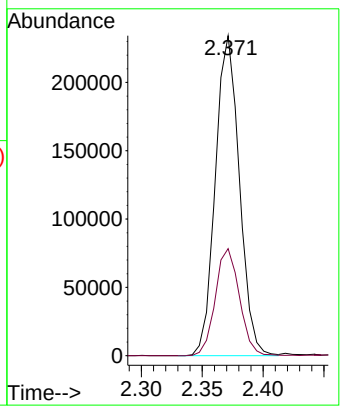




#3
Chloromethane
Concen: 45.612 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 50 Resp: 32142

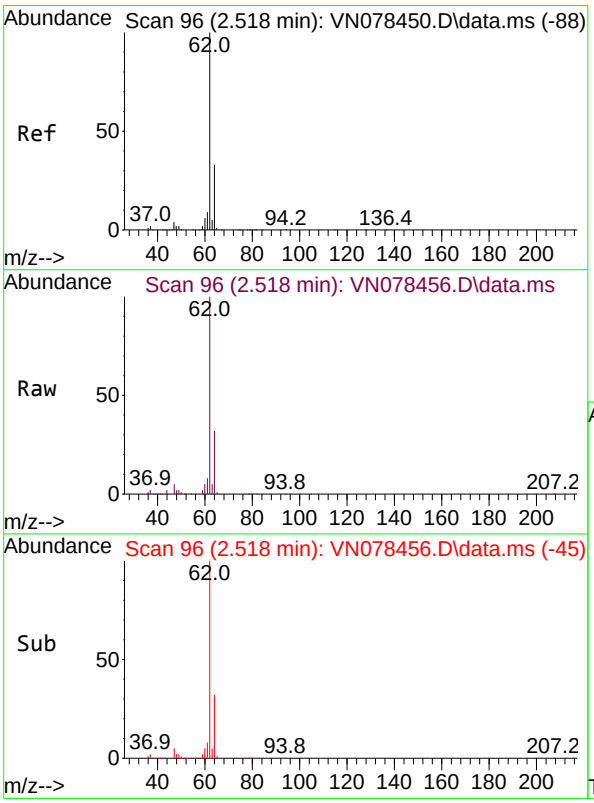
Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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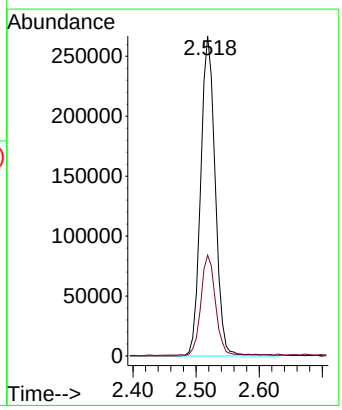
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

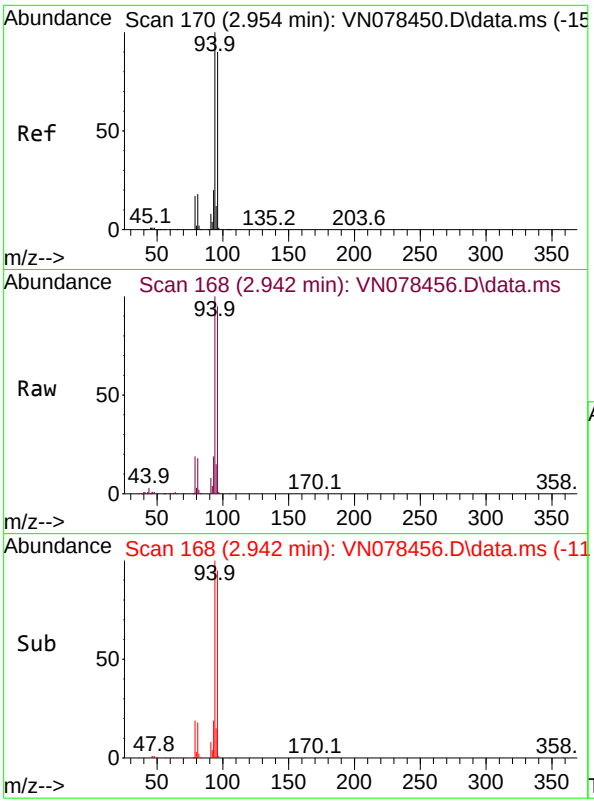


#4
Vinyl Chloride
Concen: 46.703 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 62 Resp: 425744

Ion	Ratio	Lower	Upper
62	100		
64	31.2	26.2	39.2

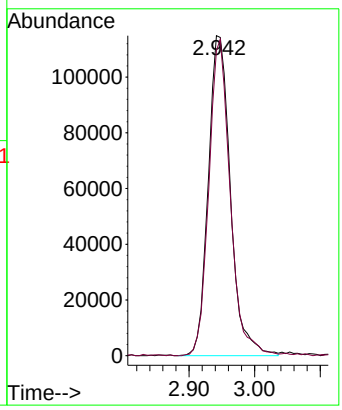




#5
Bromomethane
Concen: 46.343 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 94 Resp: 26930

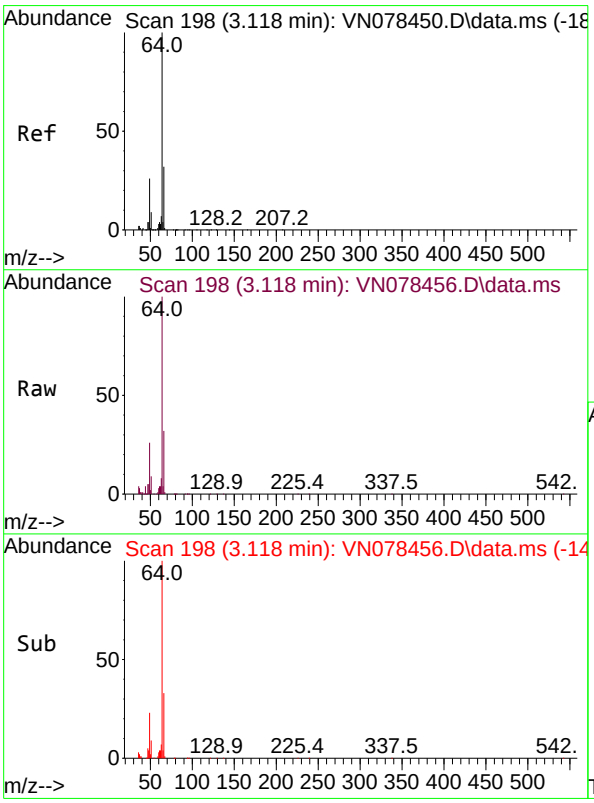
Ion	Ratio	Lower	Upper
94	100		
96	95.4	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

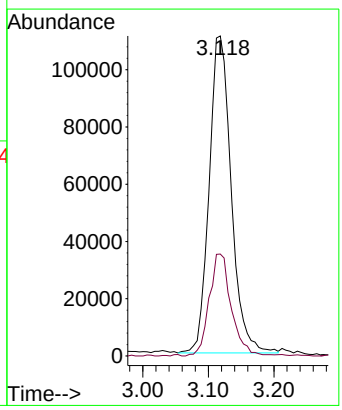
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

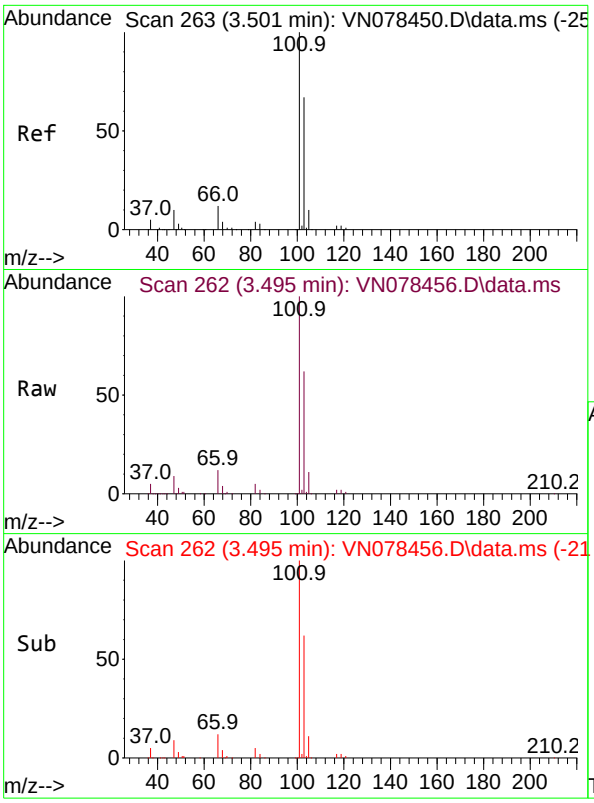


#6
Chloroethane
Concen: 46.895 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 64 Resp: 259254

Ion	Ratio	Lower	Upper
64	100		
66	31.7	25.4	38.2





#7
Trichlorofluoromethane
Concen: 45.769 ug/l
RT: 3.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

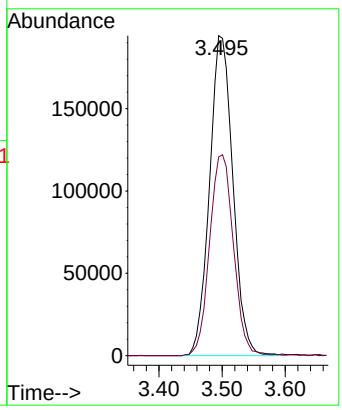
Tgt Ion:101 Resp: 49875

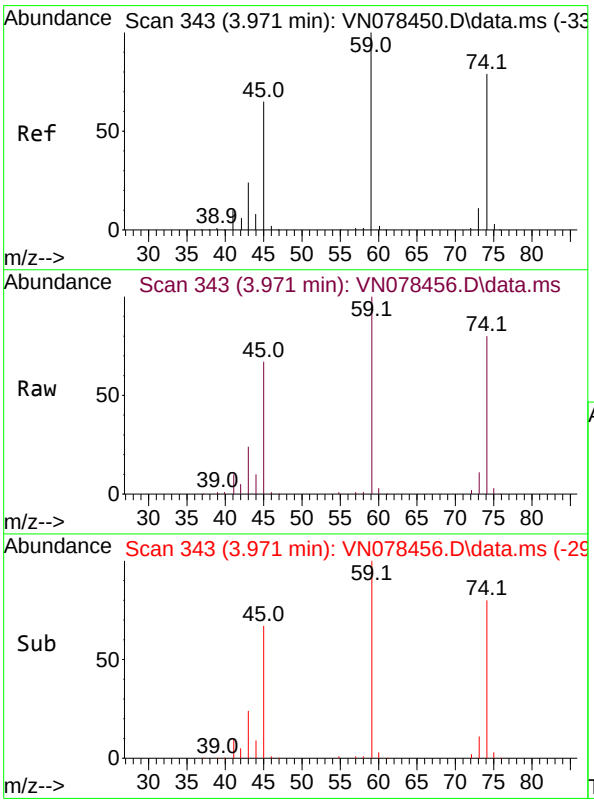
Ion	Ratio	Lower	Upper
101	100		
103	62.1	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

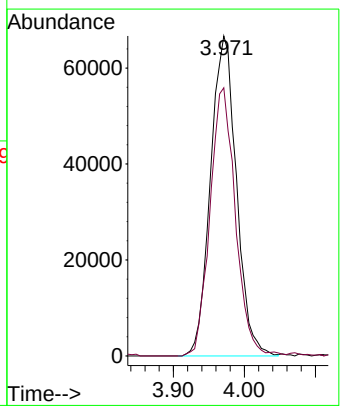


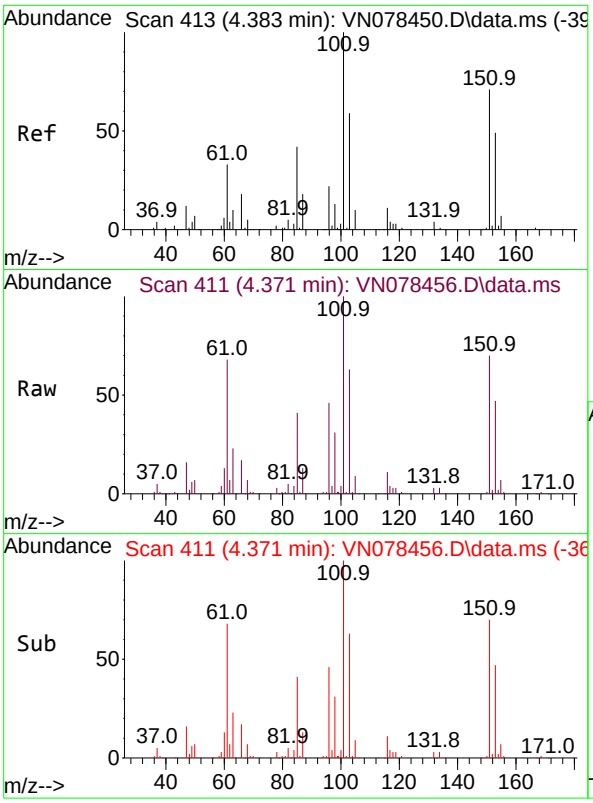


#8
Diethyl Ether
Concen: 46.501 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 74 Resp: 168828

Ion	Ratio	Lower	Upper
74	100		
45	82.1	34.4	103.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.262 ug/l
RT: 4.371 min Scan# 41
Delta R.T. -0.012 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

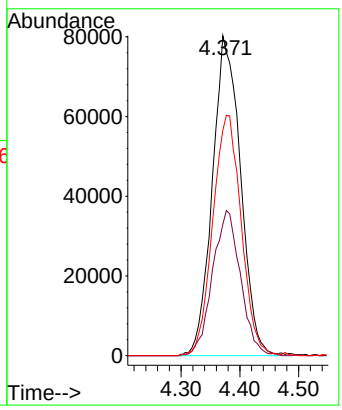
Tgt Ion:101 Resp: 26686

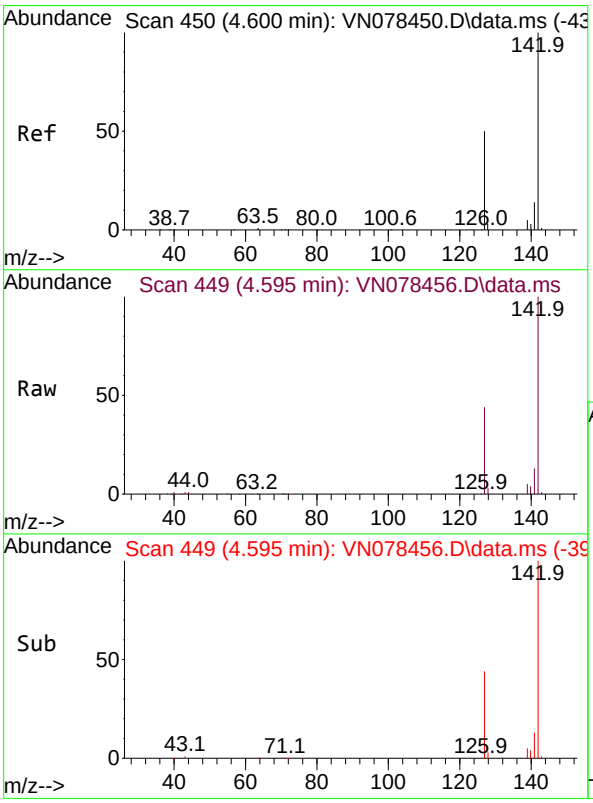
Ion	Ratio	Lower	Upper
101	100		
85	45.1	36.6	55.0
151	76.1	57.6	86.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

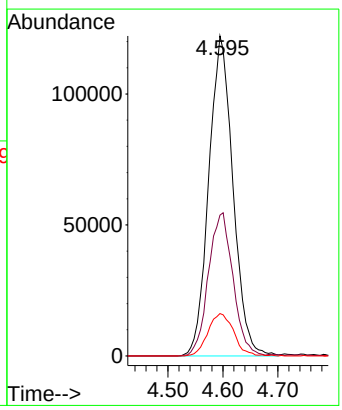


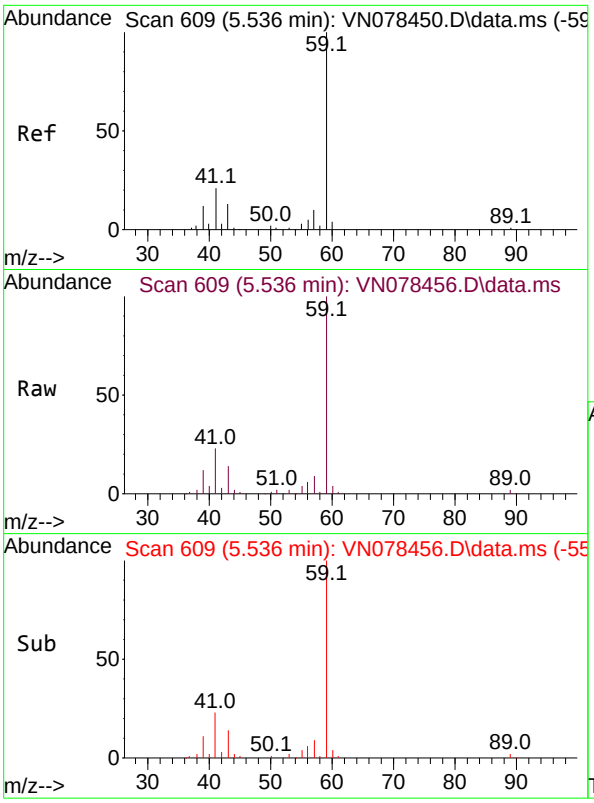


#10
Methyl Iodide
Concen: 47.142 ug/l
RT: 4.595 min Scan# 449
Delta R.T. -0.005 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:142 Resp: 373684

Ion	Ratio	Lower	Upper
142	100		
127	44.0	37.6	56.4
141	13.2	11.4	17.0

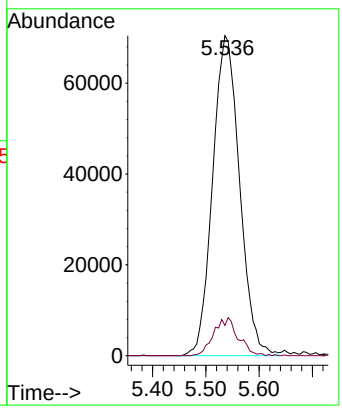




#11
Tert butyl alcohol
Concen: 226.307 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 59 Resp: 24739

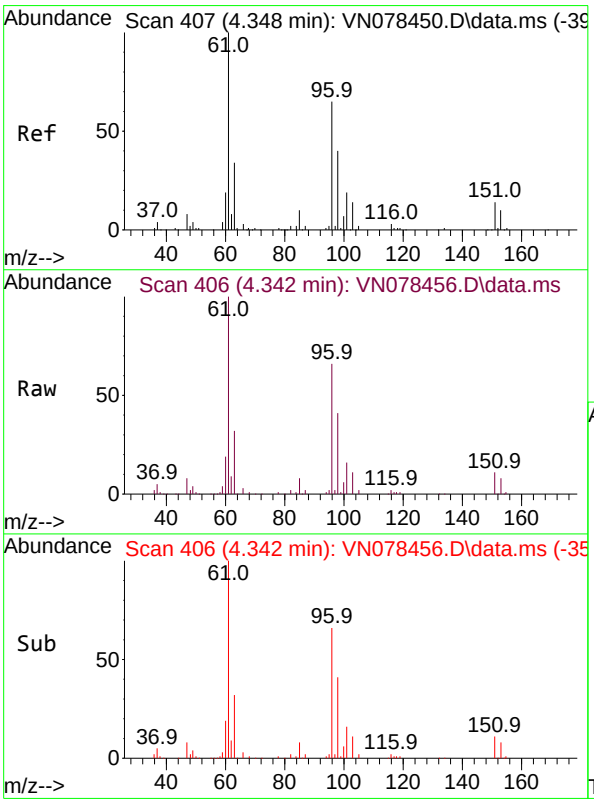
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

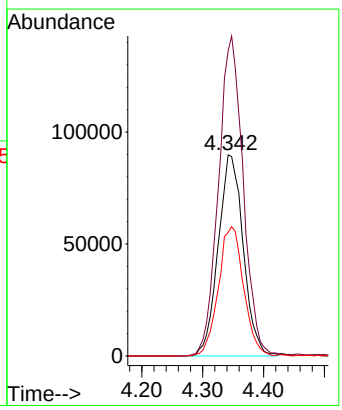
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

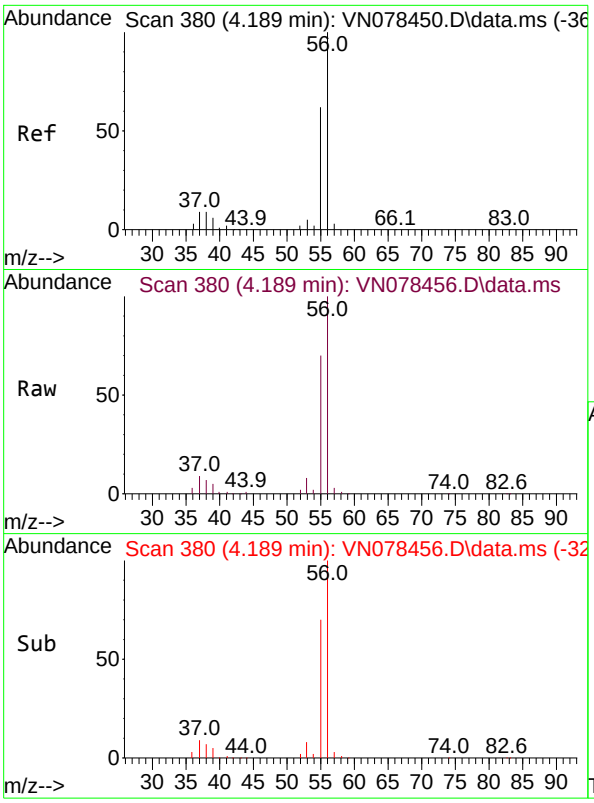


#12
1,1-Dichloroethene
Concen: 45.920 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 96 Resp: 256230

Ion	Ratio	Lower	Upper
96	100		
61	151.6	112.7	169.1
98	61.4	51.2	76.8

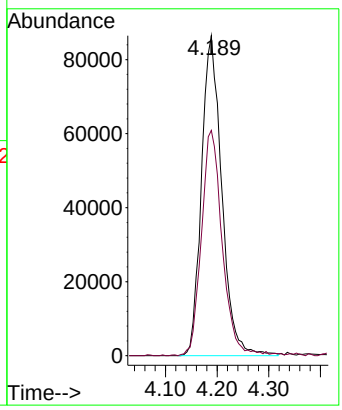




#13
Acrolein
Concen: 218.892 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 56 Resp: 23542

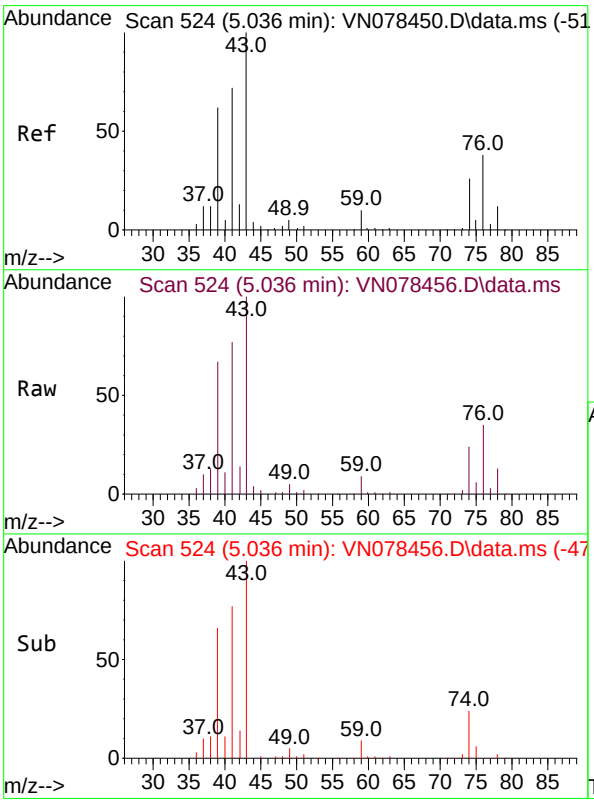
Ion	Ratio	Lower	Upper
56	100		
55	72.1	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

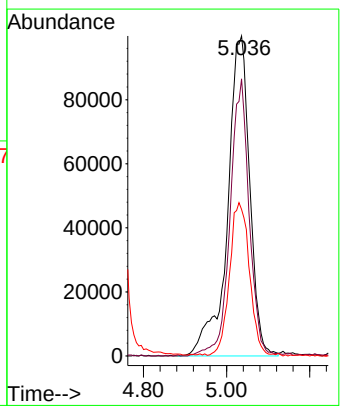
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

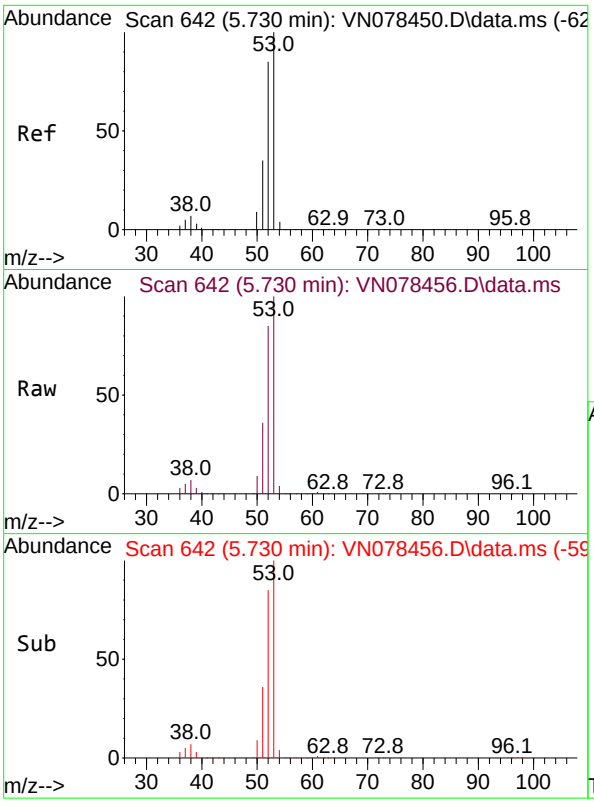


#14
Allyl chloride
Concen: 48.794 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 41 Resp: 372034

Ion	Ratio	Lower	Upper
41	100		
39	73.9	58.8	88.2
76	43.0	39.1	58.7

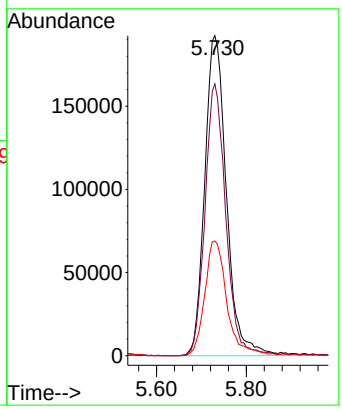




#15
Acrylonitrile
Concen: 233.296 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 53 Resp: 64437

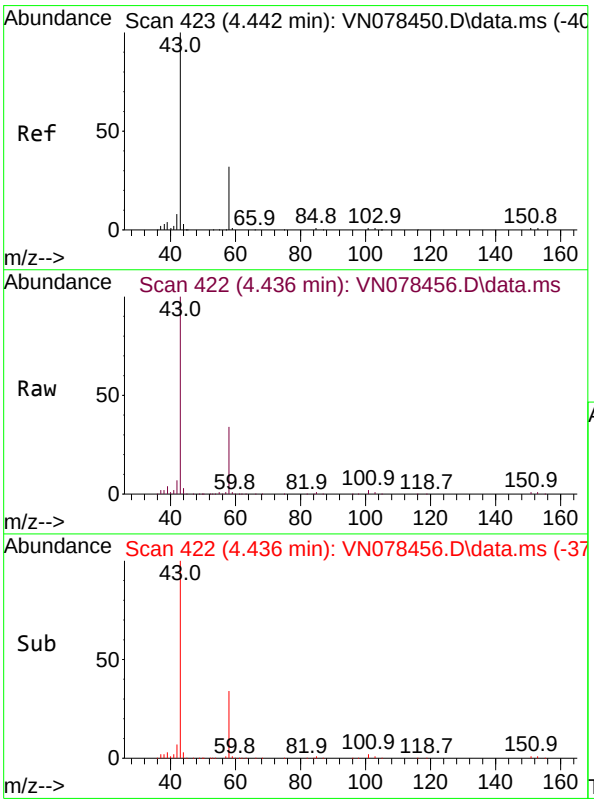
Ion	Ratio	Lower	Upper
53	100		
52	81.7	65.3	97.9
51	36.9	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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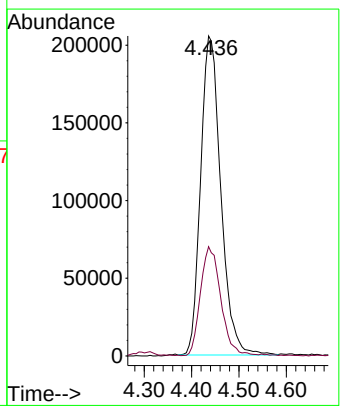
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

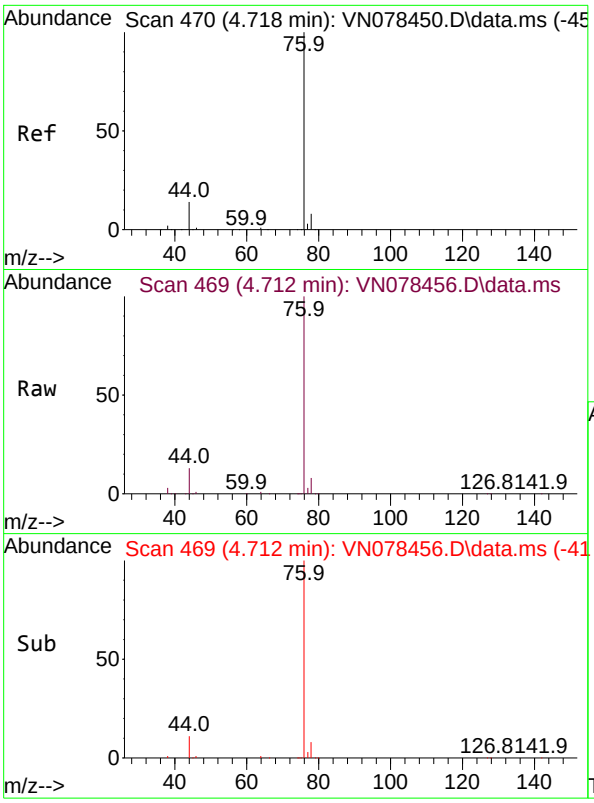


#16
Acetone
Concen: 275.366 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 43 Resp: 608092

Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.0	42.0

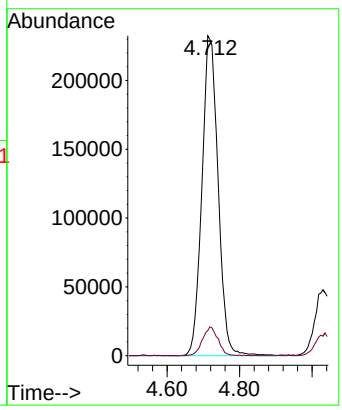




#17
Carbon Disulfide
Concen: 44.637 ug/l
RT: 4.712 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 76 Resp: 72022

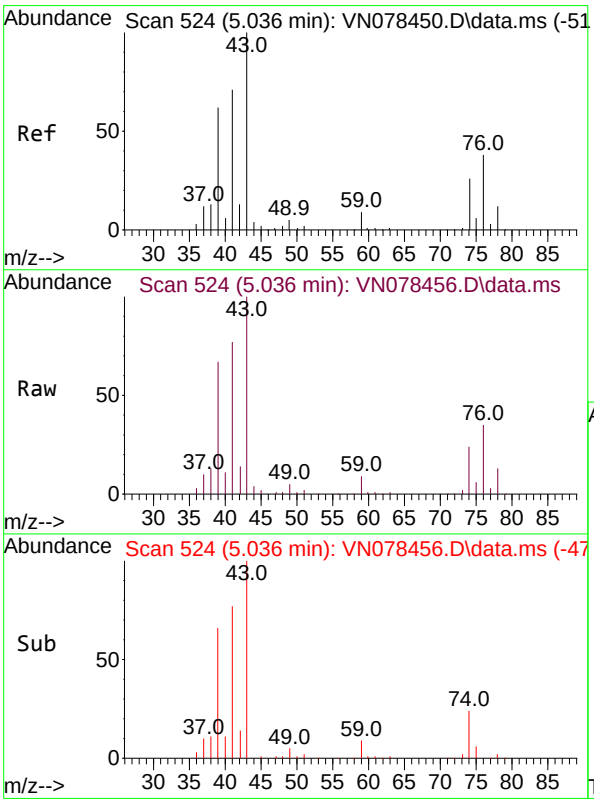
Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.4	11.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

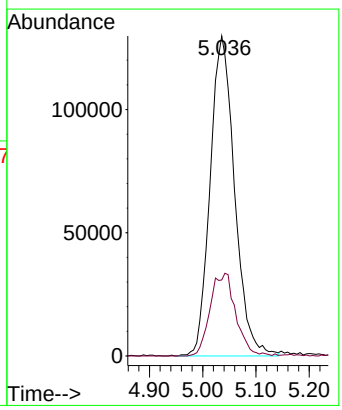
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

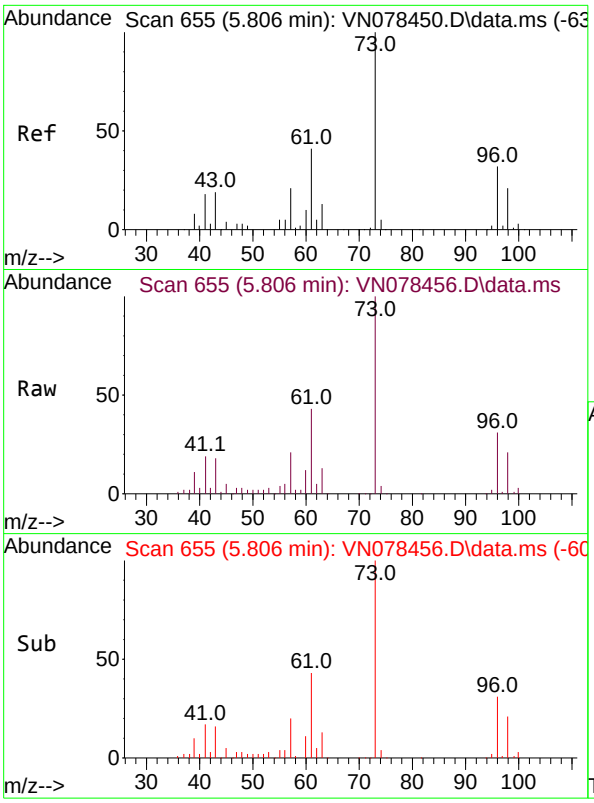


#18
Methyl Acetate
Concen: 44.297 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 43 Resp: 414097

Ion	Ratio	Lower	Upper
43	100		
74	27.0	26.2	39.4

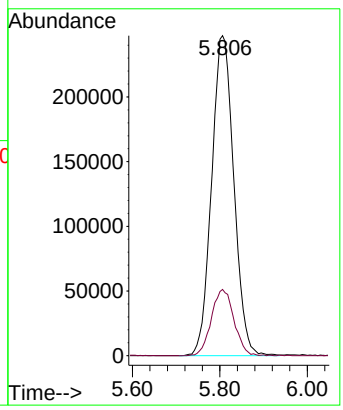




#19
Methyl tert-butyl Ether
Concen: 47.399 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 73 Resp: 87141

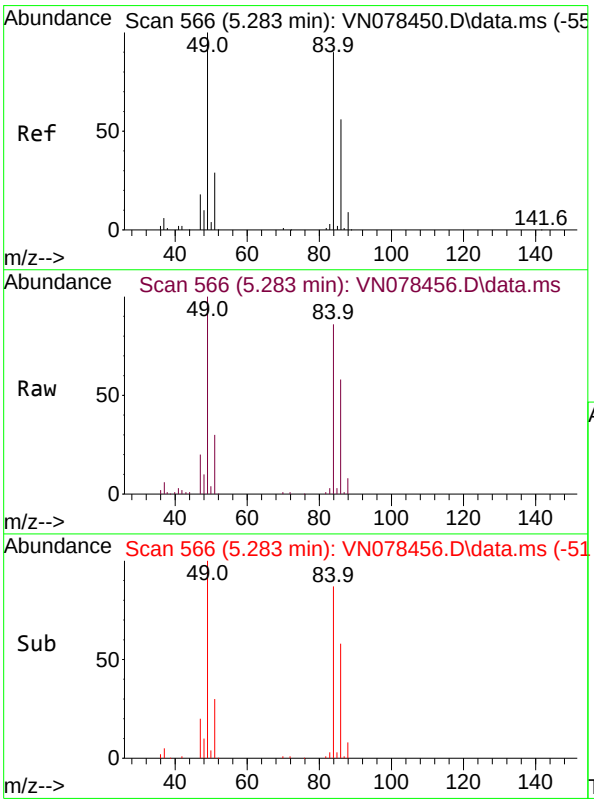
Ion	Ratio	Lower	Upper
73	100		
57	20.7	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

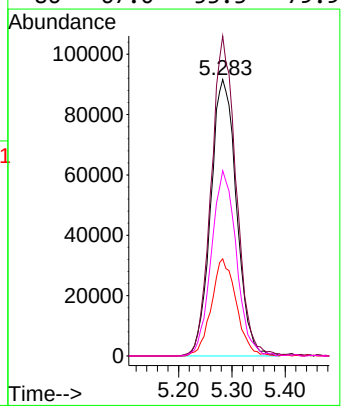
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

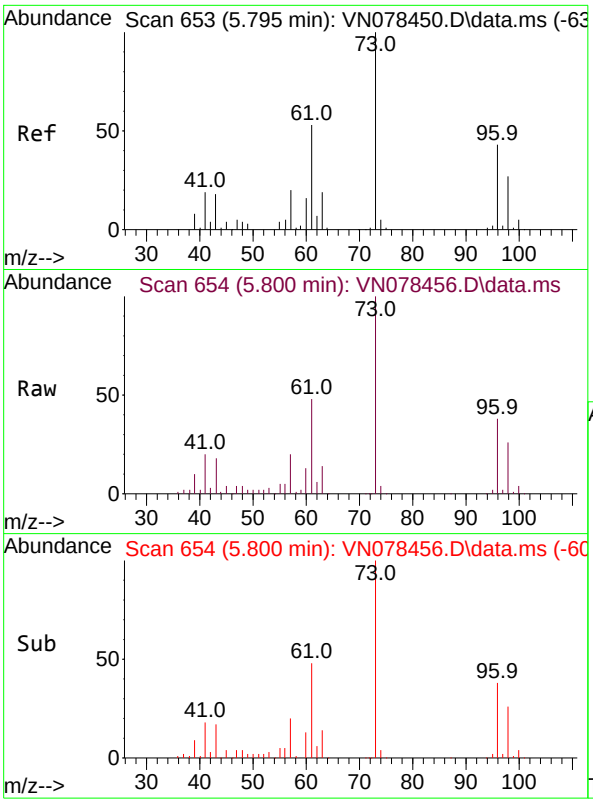


#20
Methylene Chloride
Concen: 48.416 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 84 Resp: 306926

Ion	Ratio	Lower	Upper
84	100		
49	115.7	79.7	119.5
51	35.1	25.2	37.8
86	67.0	53.3	79.9

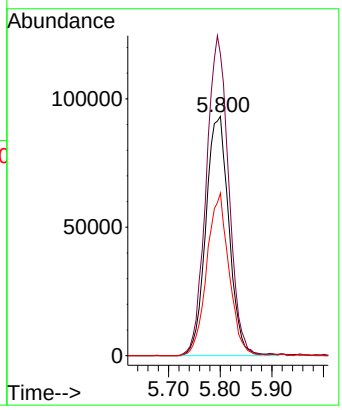




#21
trans-1,2-Dichloroethene
Concen: 46.046 ug/l
RT: 5.800 min Scan# 6
Delta R.T. 0.005 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 96 Resp: 28953

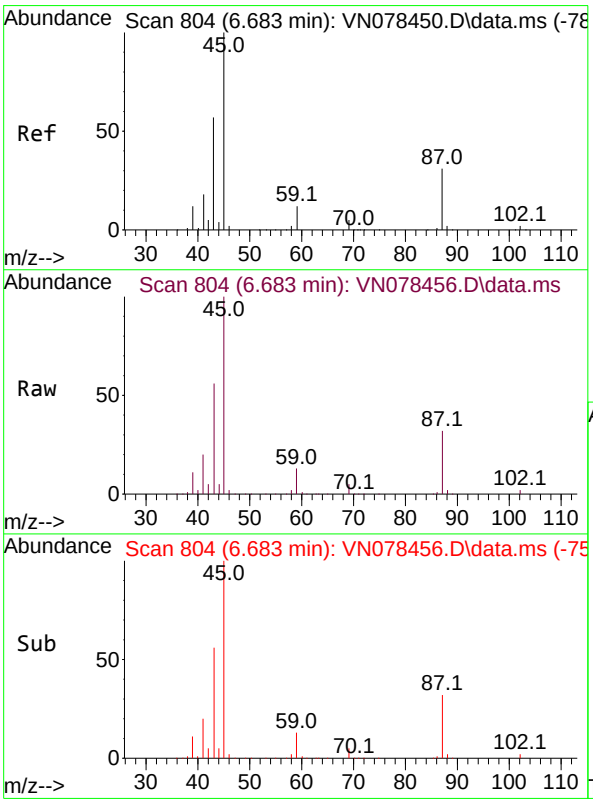
Ion	Ratio	Lower	Upper
96	100		
61	125.9	90.1	135.1
98	67.9	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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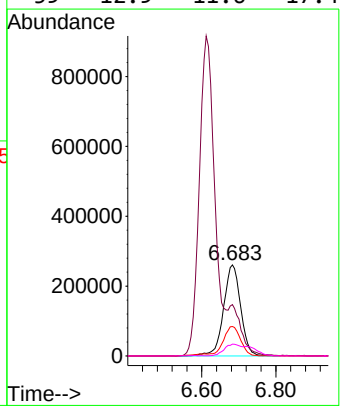
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

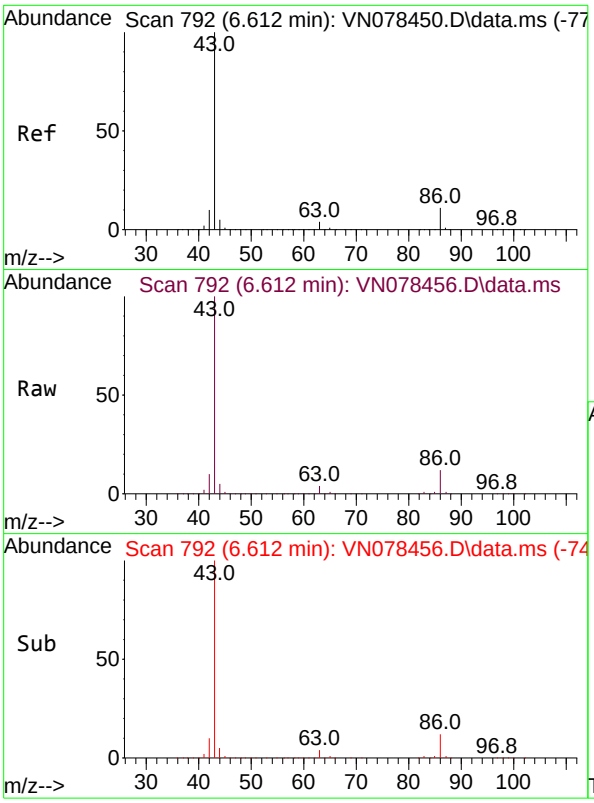


#22
Diisopropyl ether
Concen: 48.898 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 45 Resp: 834818

Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.5	68.3
87	32.2	31.8	47.8
59	12.9	11.6	17.4





#23
Vinyl Acetate
Concen: 247.568 ug/l
RT: 6.612 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

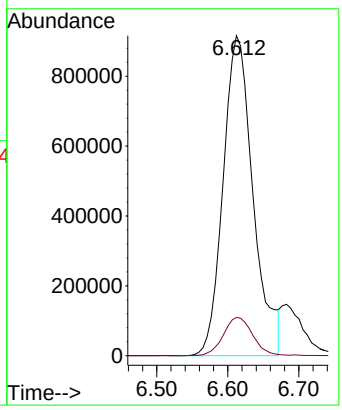
Tgt Ion: 43 Resp: 268702

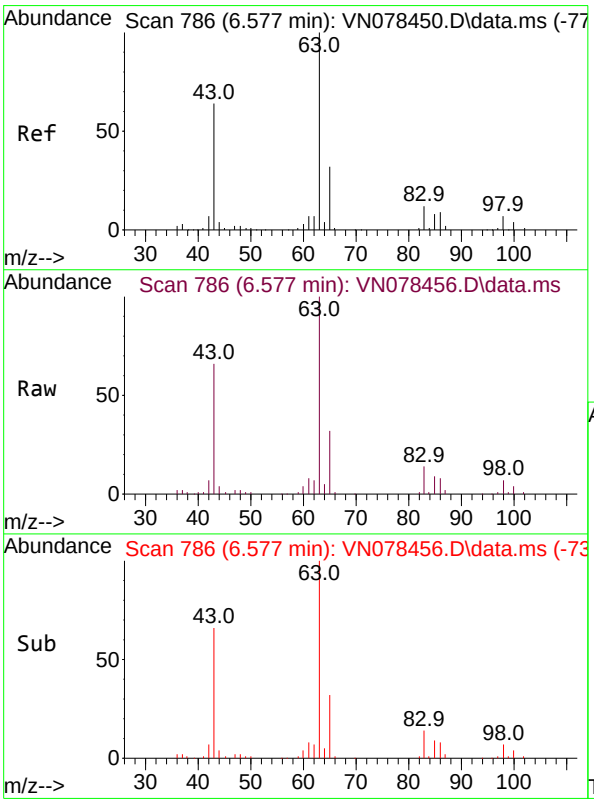
Ion	Ratio	Lower	Upper
43	100		
86	11.9	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

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Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

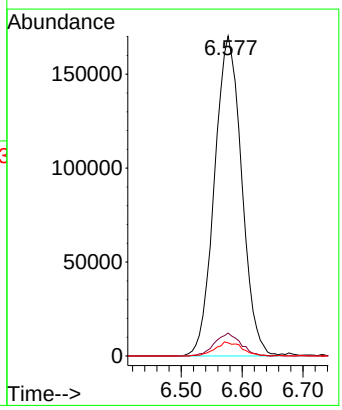


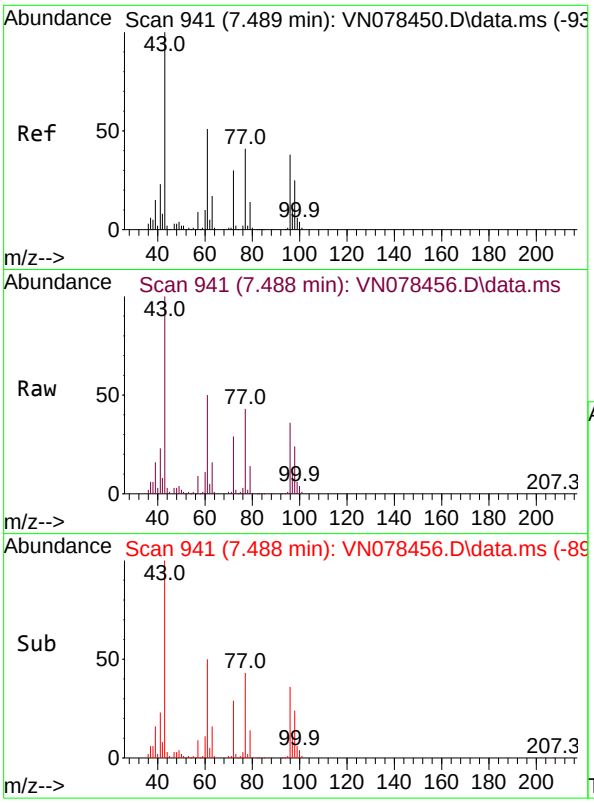


#24
1,1-Dichloroethane
Concen: 45.865 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 63 Resp: 527638

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.9	11.7
100	4.1	2.5	7.4





#25
2-Butanone
Concen: 249.973 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.001 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

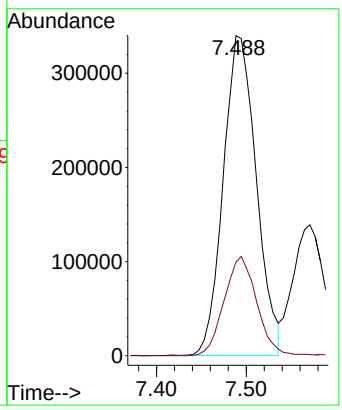
Tgt Ion: 43 Resp: 86894

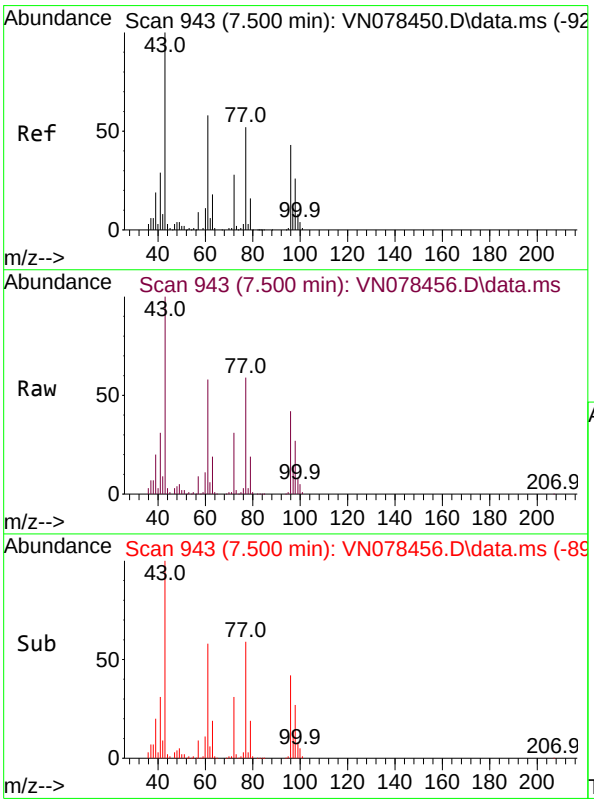
Ion	Ratio	Lower	Upper
43	100		
72	29.2	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

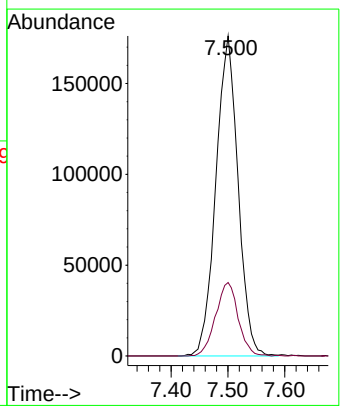


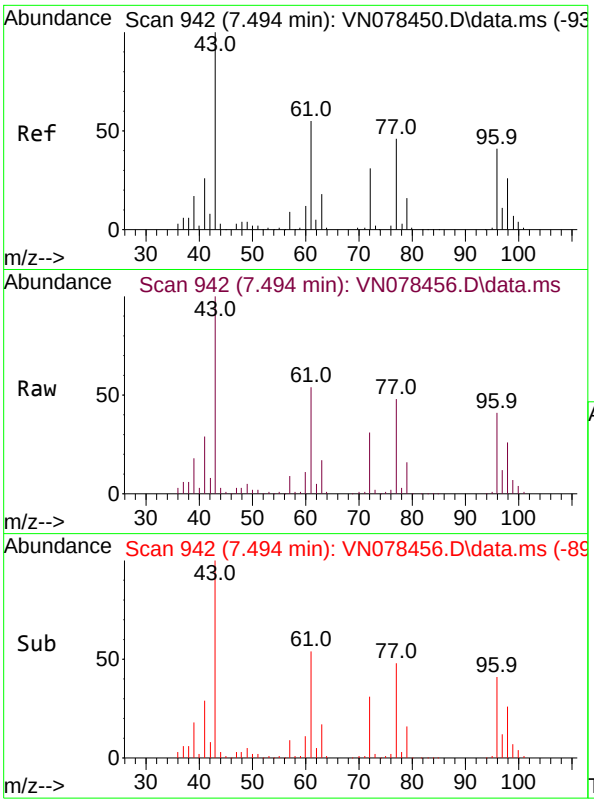


#26
2,2-Dichloropropane
Concen: 50.718 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 77 Resp: 477212

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.2	33.6

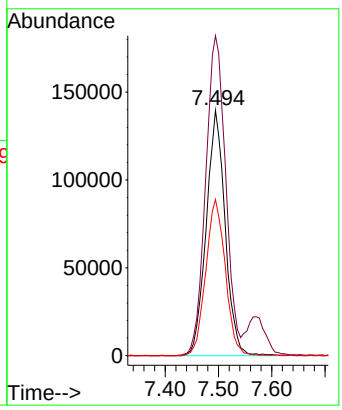




#27
cis-1,2-Dichloroethene
Concen: 47.431 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 96 Resp: 34501

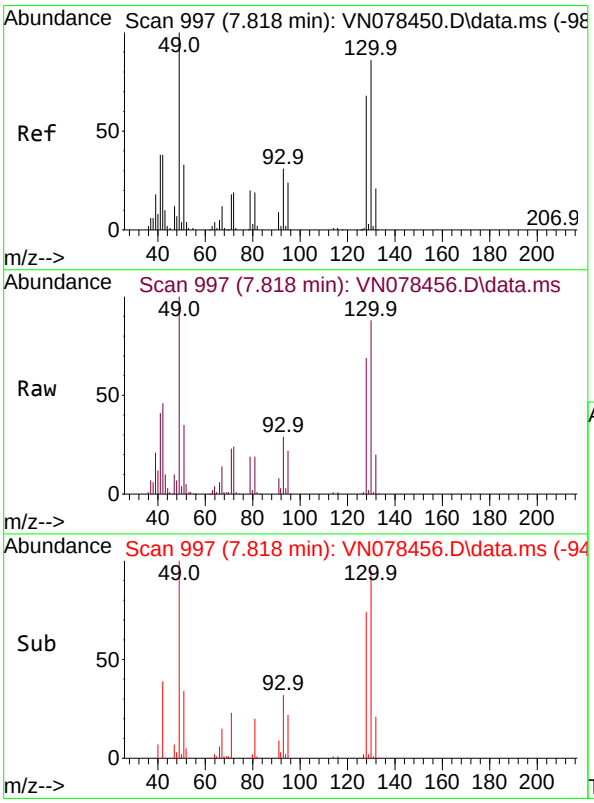
Ion	Ratio	Lower	Upper
96	100		
61	138.0	0.0	255.2
98	65.9	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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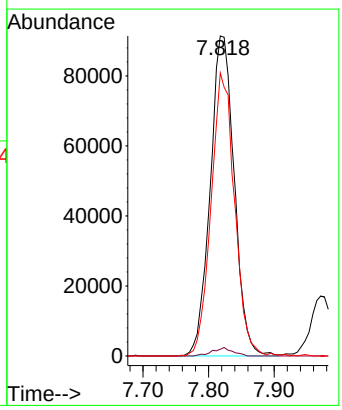
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

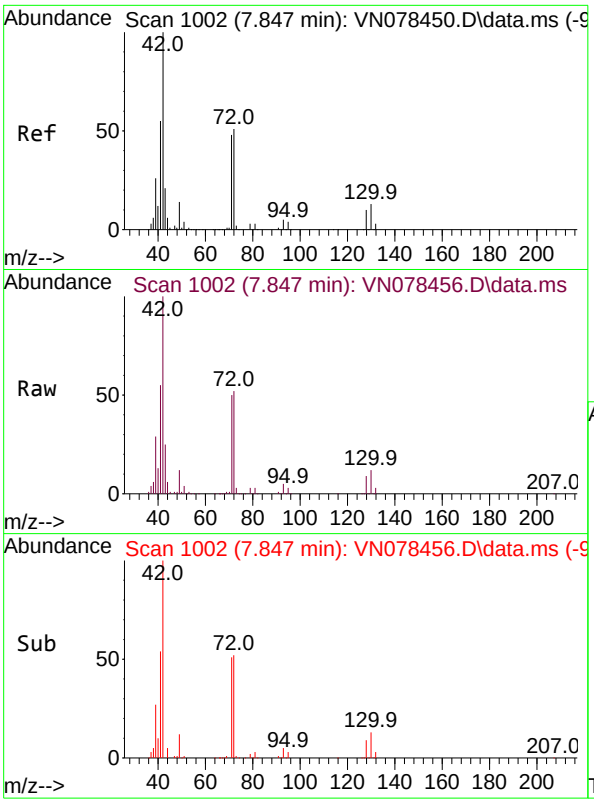


#28
Bromochloromethane
Concen: 42.998 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 49 Resp: 232983

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.8
130	85.9	75.3	112.9





#29
Tetrahydrofuran
Concen: 232.708 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

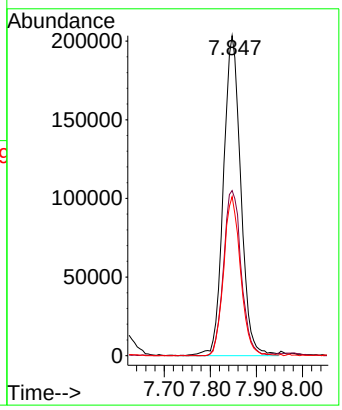
Tgt Ion: 42 Resp: 53079

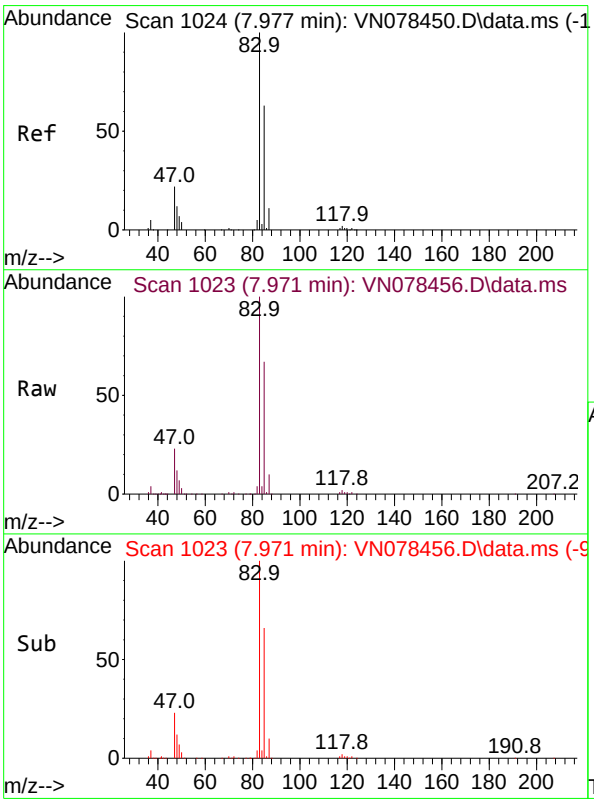
Ion	Ratio	Lower	Upper
42	100		
72	52.4	49.8	74.6
71	48.5	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

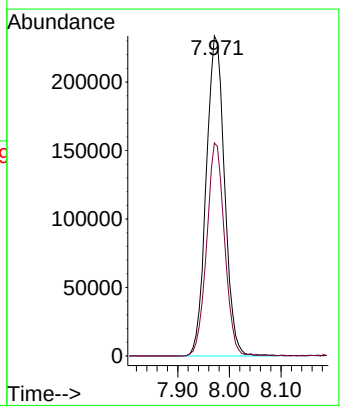


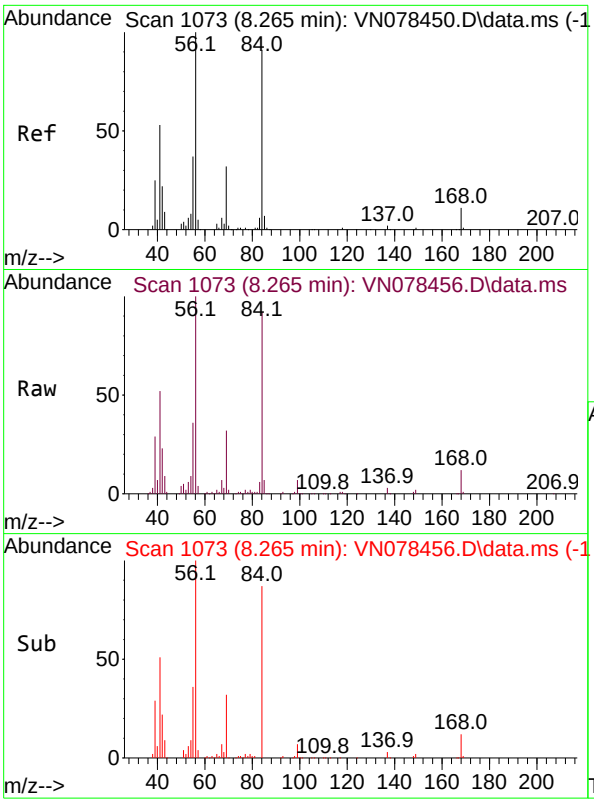


#30
Chloroform
Concen: 48.065 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 83 Resp: 575675

Ion	Ratio	Lower	Upper
83	100		
85	66.5	55.4	83.0

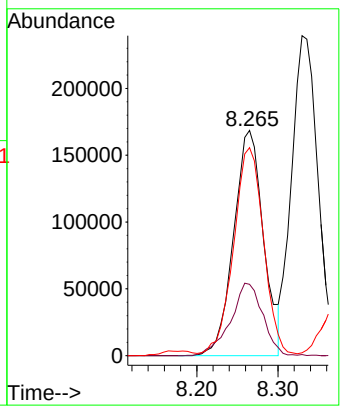




#31
Cyclohexane
Concen: 44.945 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 56 Resp: 43060

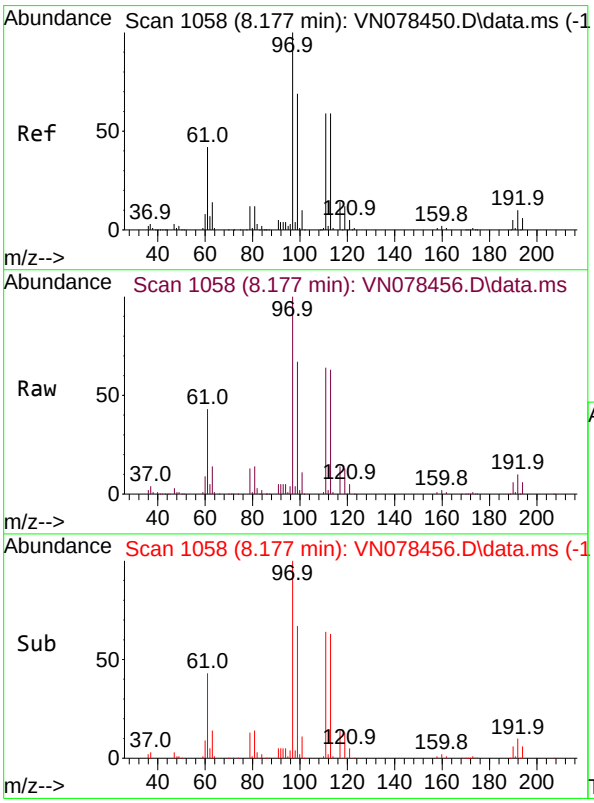
Ion	Ratio	Lower	Upper
56	100		
69	31.7	26.8	40.2
84	90.4	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

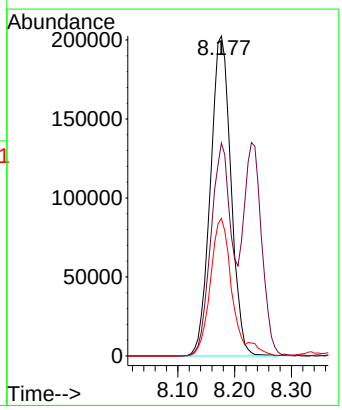
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

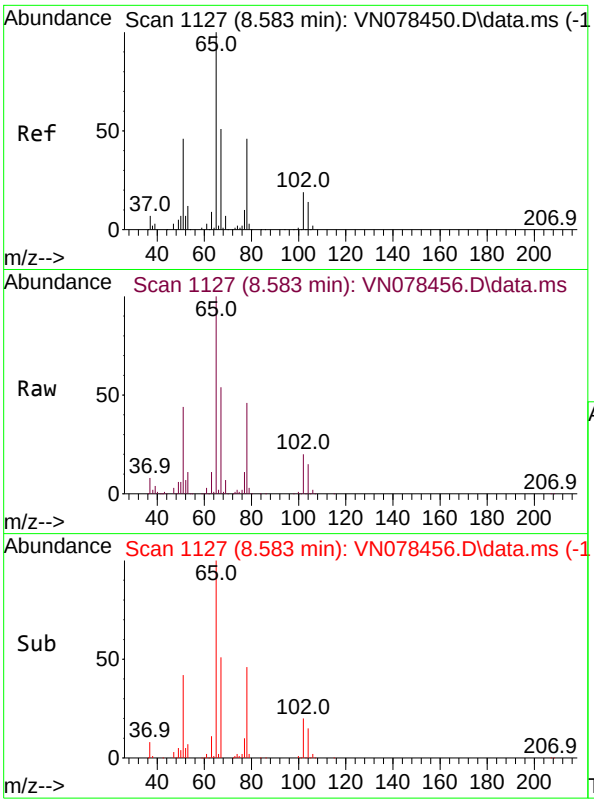


#32
1,1,1-Trichloroethane
Concen: 47.368 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 97 Resp: 508638

Ion	Ratio	Lower	Upper
97	100		
99	67.4	50.3	75.5
61	45.8	34.7	52.1

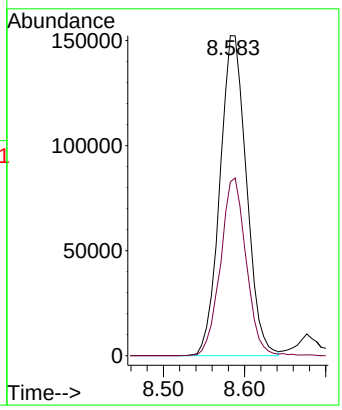




#33
1,2-Dichloroethane-d4
Concen: 48.801 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 65 Resp: 34596

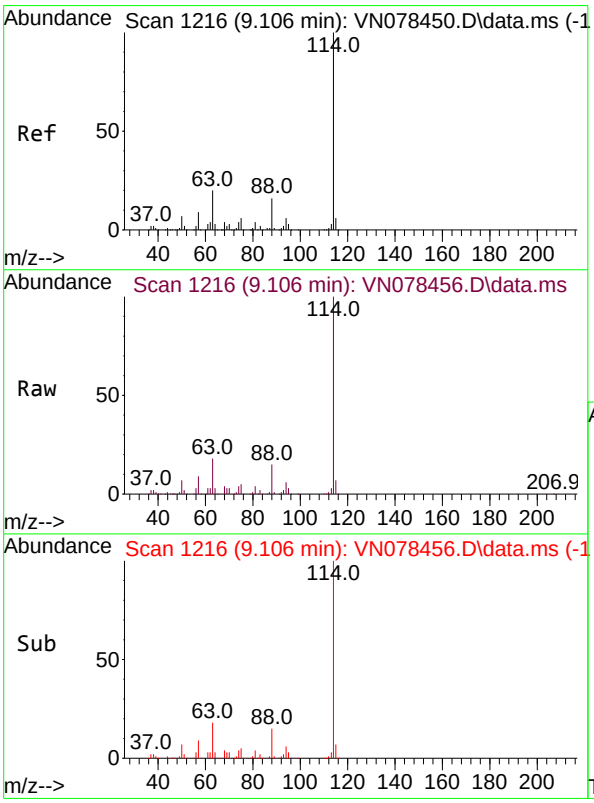
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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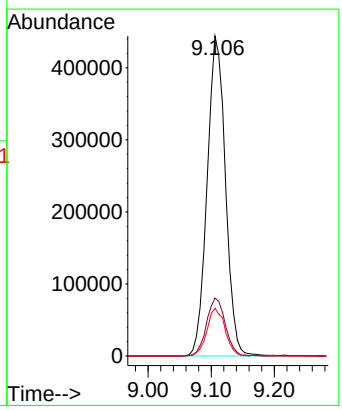
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

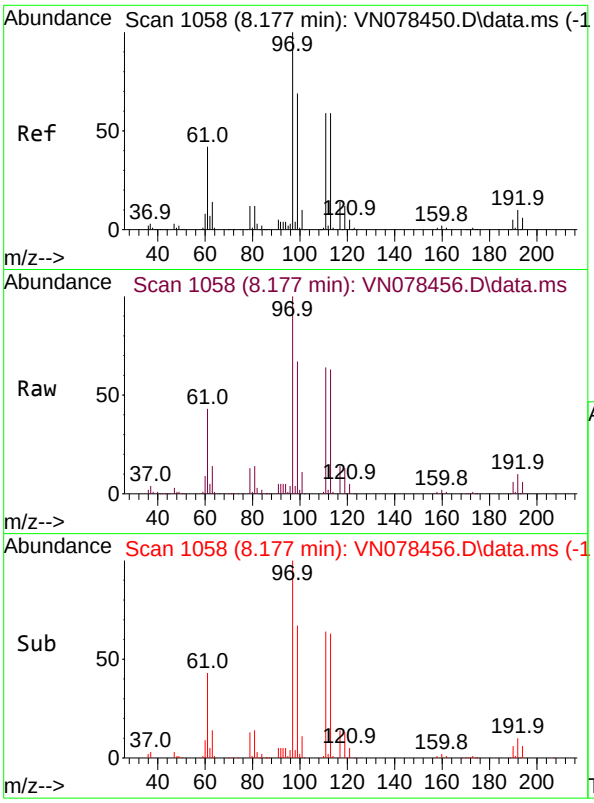


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:114 Resp: 894994

Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	36.4
88	14.9	0.0	30.6

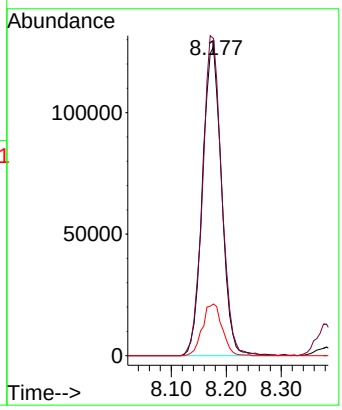




#35
Dibromofluoromethane
Concen: 50.573 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:113 Resp: 30725

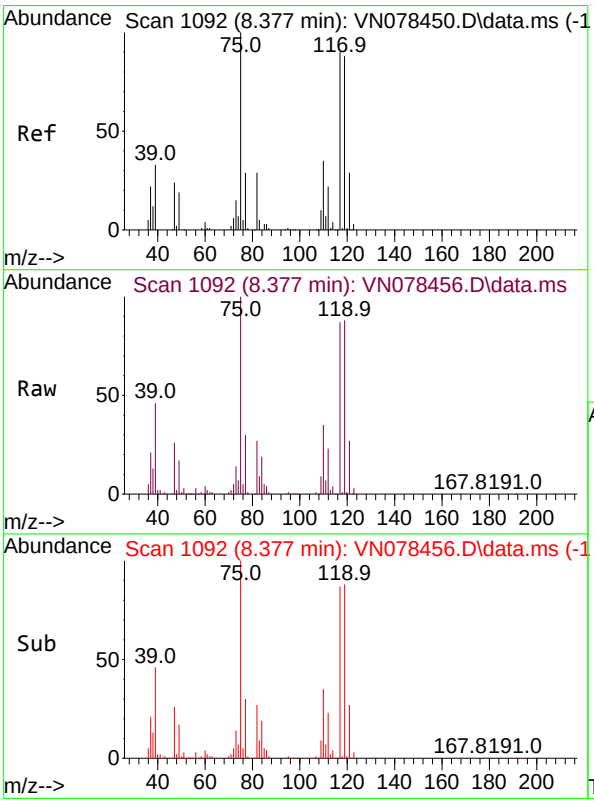
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	17.3	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

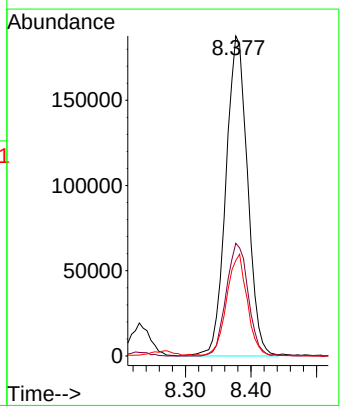
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

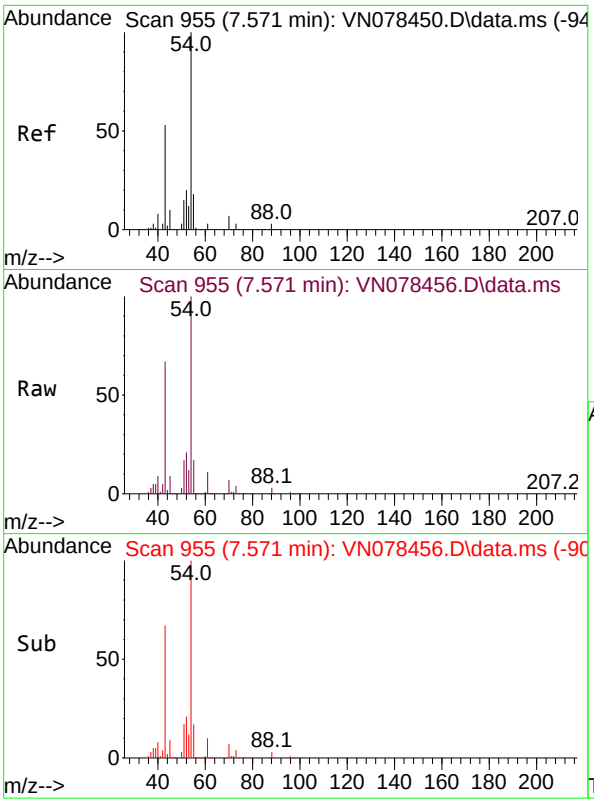


#36
1,1-Dichloropropene
Concen: 49.155 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 75 Resp: 431213

Ion	Ratio	Lower	Upper
75	100		
110	35.7	19.1	57.3
77	30.1	25.0	37.4





#37
Ethyl Acetate
Concen: 48.483 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

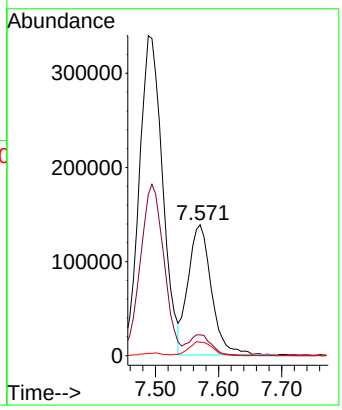
Tgt Ion: 43 Resp: 35455

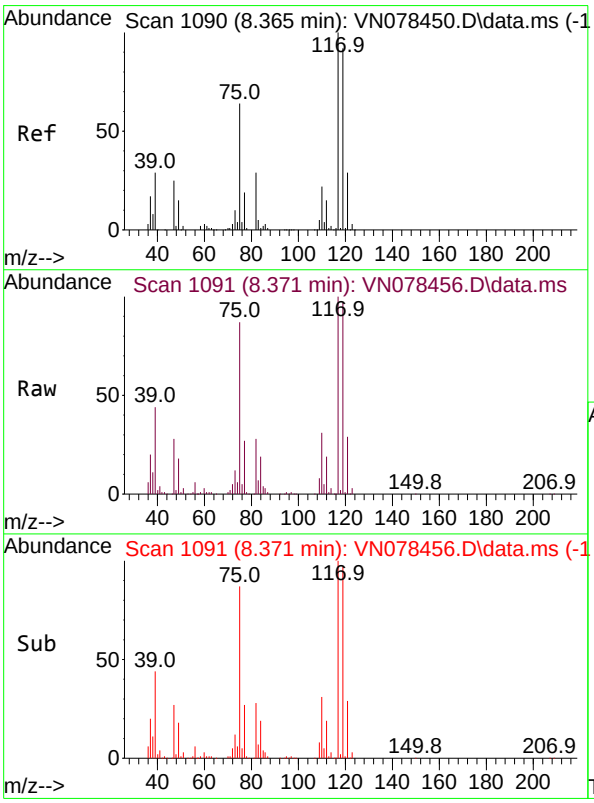
Ion	Ratio	Lower	Upper
43	100		
61	15.7	13.2	19.8
70	10.9	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

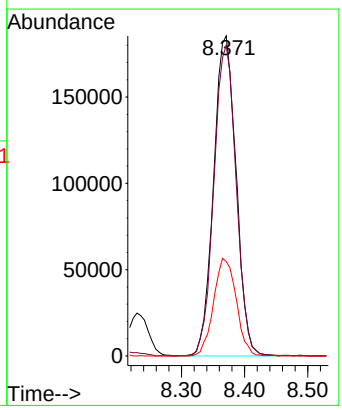


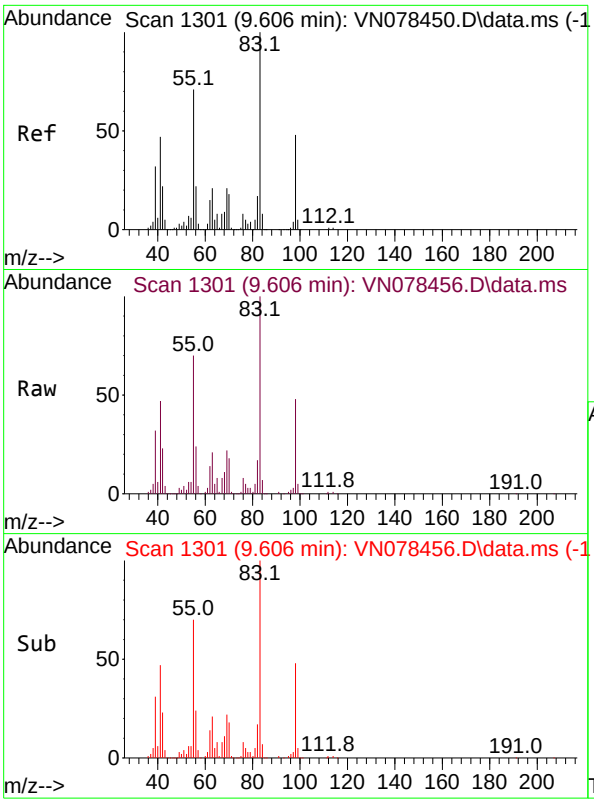


#38
Carbon Tetrachloride
Concen: 48.160 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:117 Resp: 459176

Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.3	115.9
121	29.5	23.3	34.9

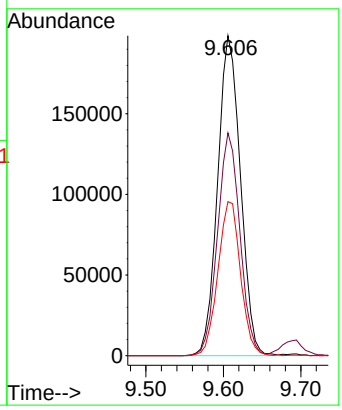




#39
Methylcyclohexane
Concen: 50.755 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 83 Resp: 40641

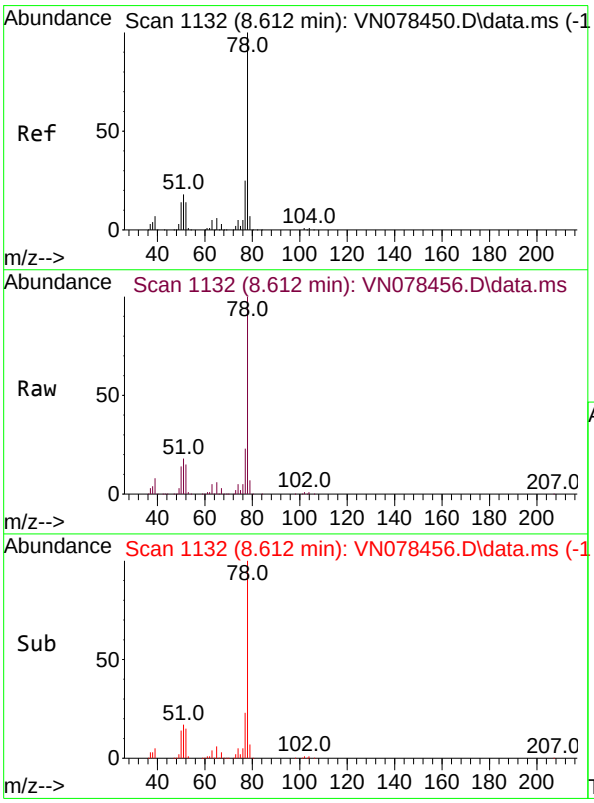
Ion	Ratio	Lower	Upper
83	100		
55	69.6	49.1	73.7
98	48.2	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

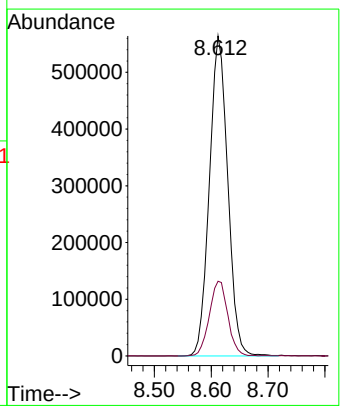
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

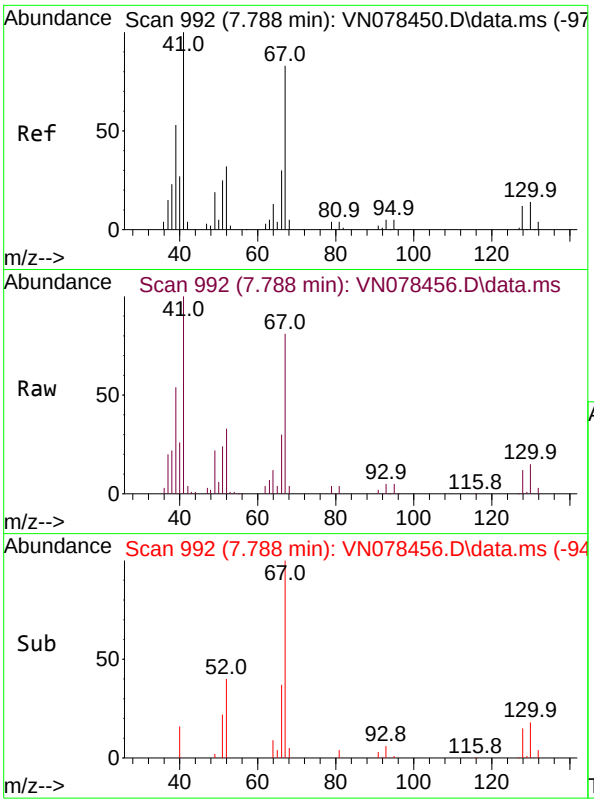


#40
Benzene
Concen: 48.595 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 78 Resp: 1262934

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6

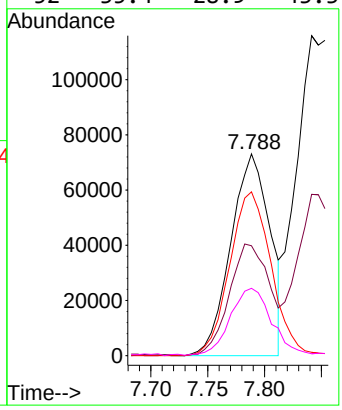




#41
Methacrylonitrile
Concen: 46.968 ug/l
RT: 7.788 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 41 Resp: 17509

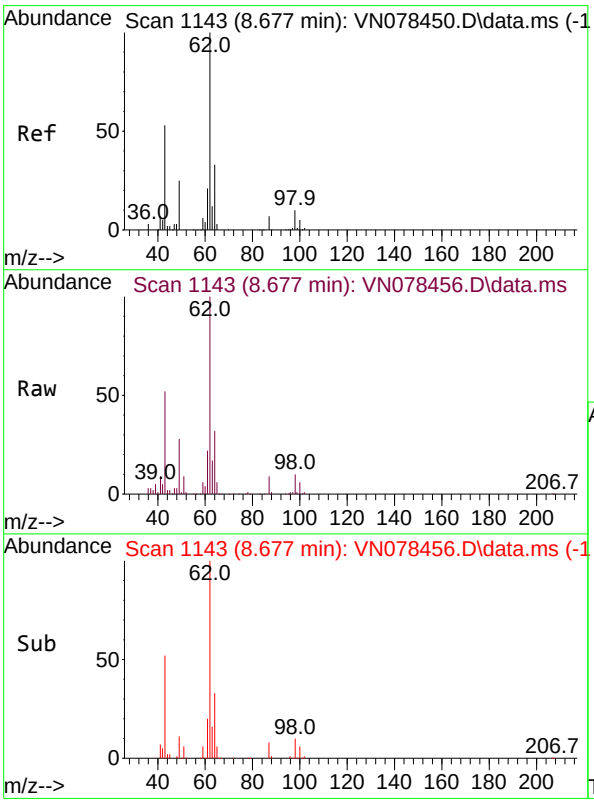
Ion	Ratio	Lower	Upper
41	100		
39	56.6	42.6	64.0
67	86.5	77.5	116.3
52	35.4	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

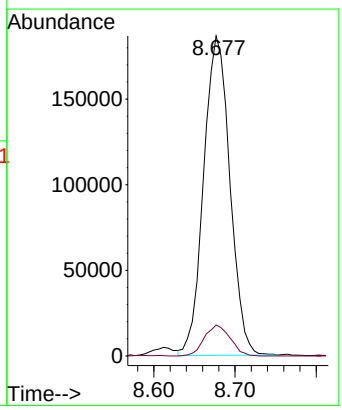
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

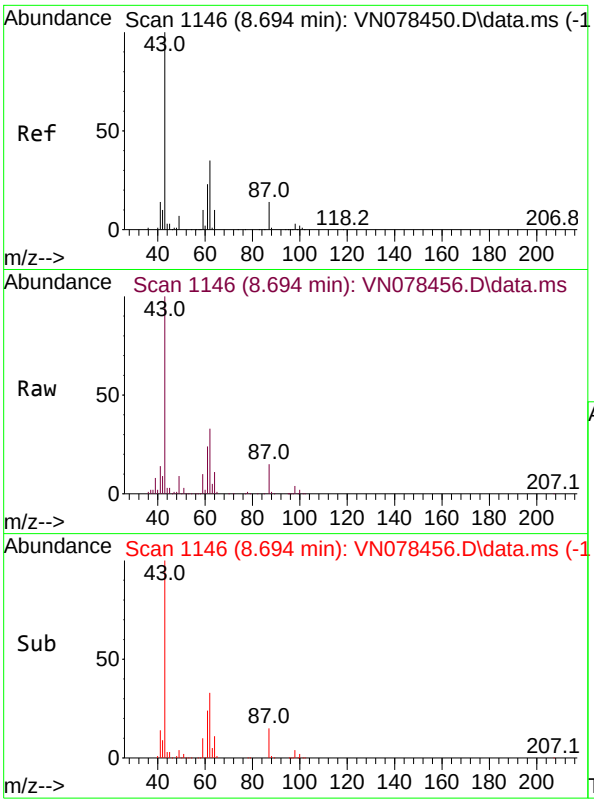


#42
1,2-Dichloroethane
Concen: 47.424 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 62 Resp: 419227

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8





#43
Isopropyl Acetate
Concen: 49.495 ug/l
RT: 8.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

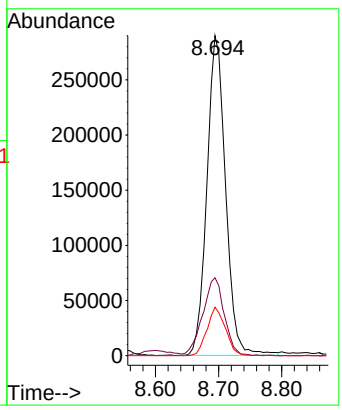
Tgt Ion: 43 Resp: 595909

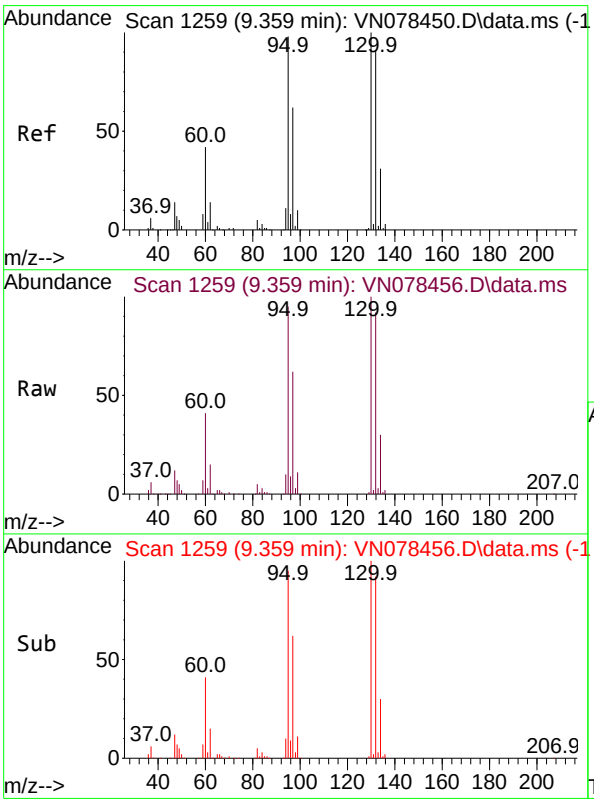
Ion	Ratio	Lower	Upper
43	100		
61	27.8	24.7	37.1
87	15.0	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

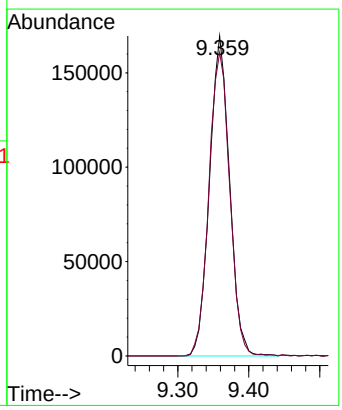


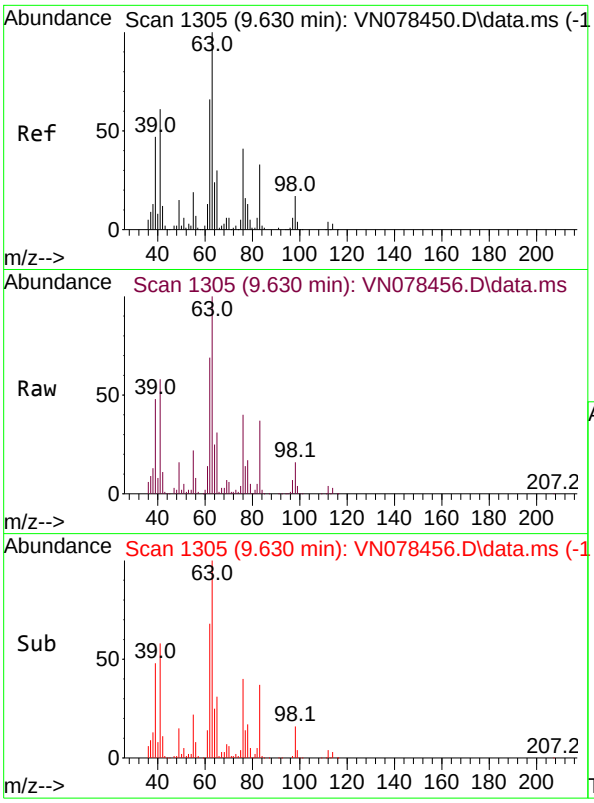


#44
Trichloroethene
Concen: 47.350 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:130 Resp: 331665

Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	204.6

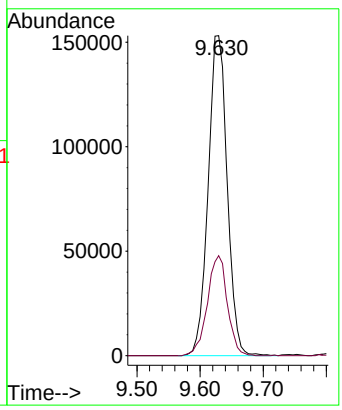




#45
1,2-Dichloropropane
Concen: 48.758 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 63 Resp: 32094

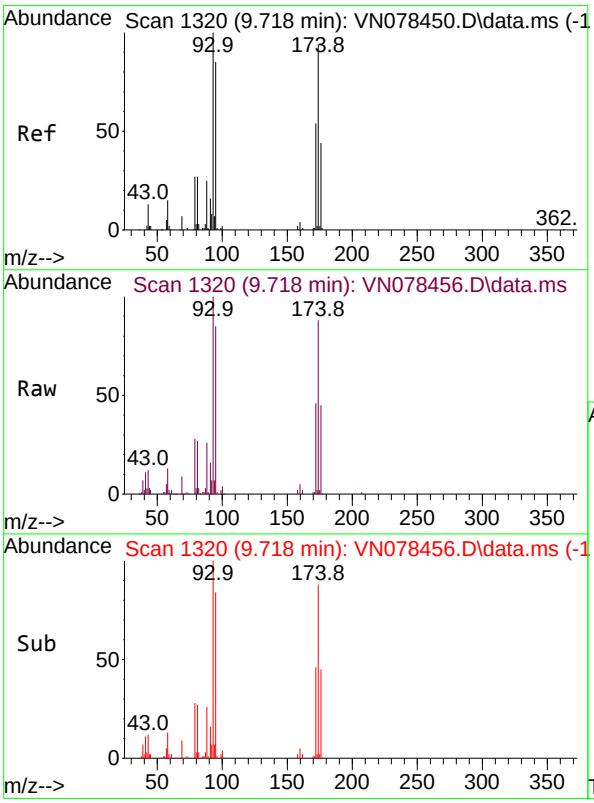
Ion	Ratio	Lower	Upper
63	100		
65	31.3	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

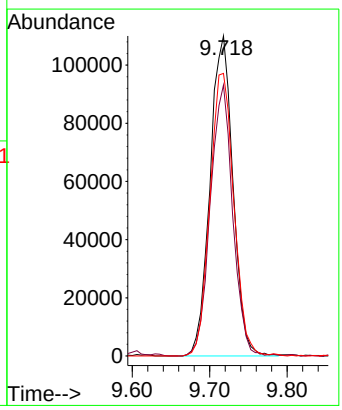
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

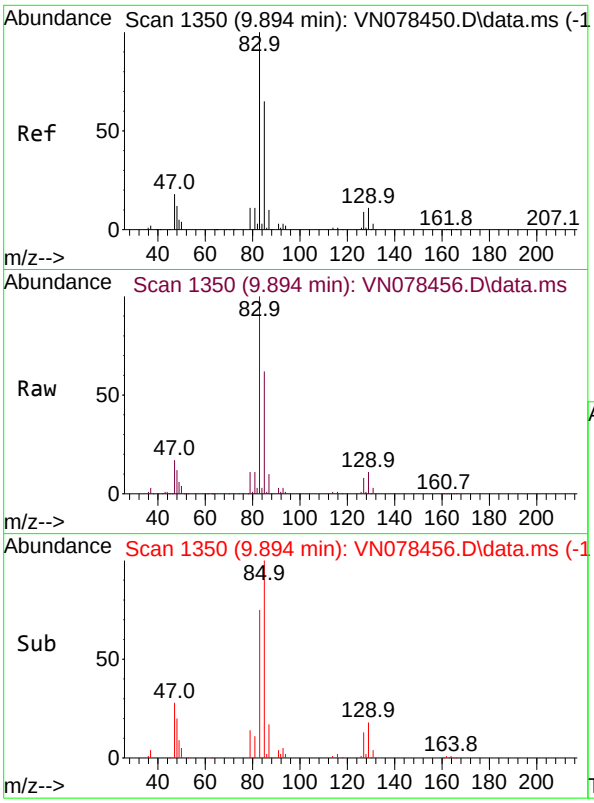


#46
Dibromomethane
Concen: 48.764 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 93 Resp: 225919

Ion	Ratio	Lower	Upper
93	100		
95	82.7	63.8	95.8
174	91.9	65.6	98.4

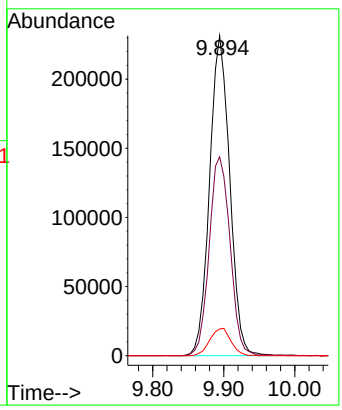




#47
Bromodichloromethane
Concen: 49.039 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 83 Resp: 45542

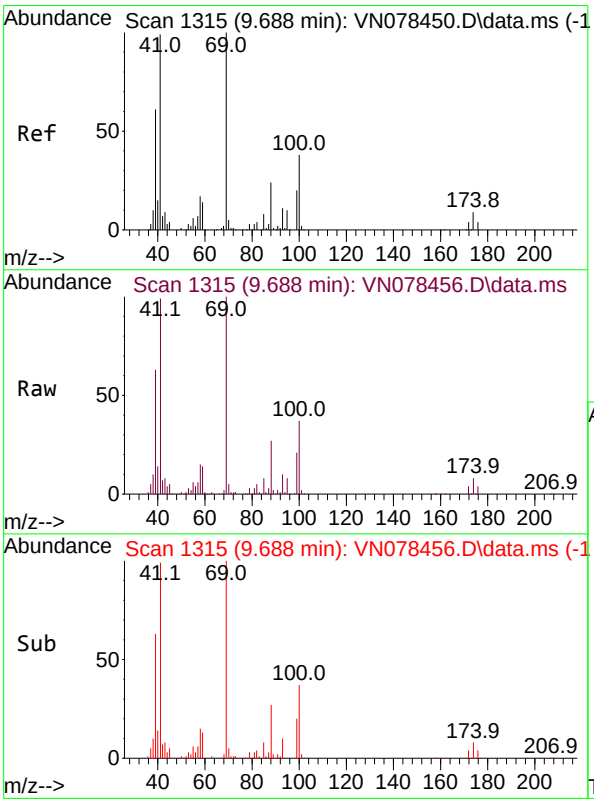
Ion	Ratio	Lower	Upper
83	100		
85	62.2	49.6	74.4
127	8.3	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

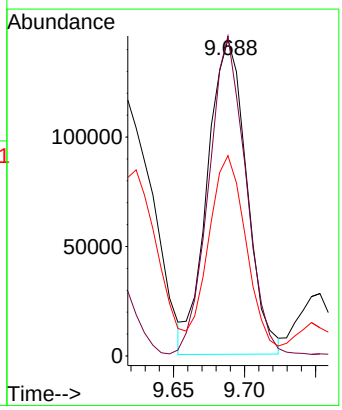
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

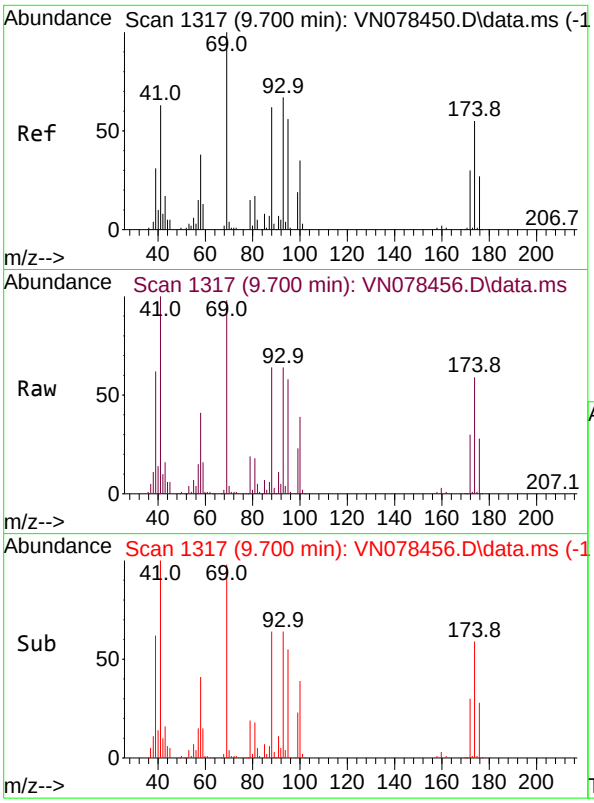


#48
Methyl methacrylate
Concen: 49.505 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 41 Resp: 276133

Ion	Ratio	Lower	Upper
41	100		
69	97.3	90.4	135.6
39	61.5	54.6	81.8

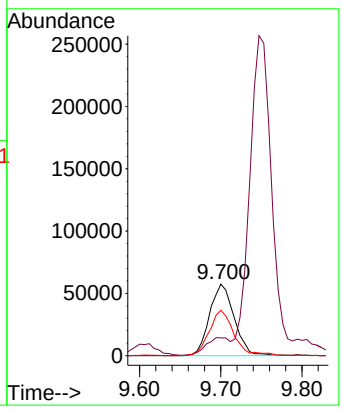




#49
1,4-Dioxane
Concen: 994.827 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 88 Resp: 12101

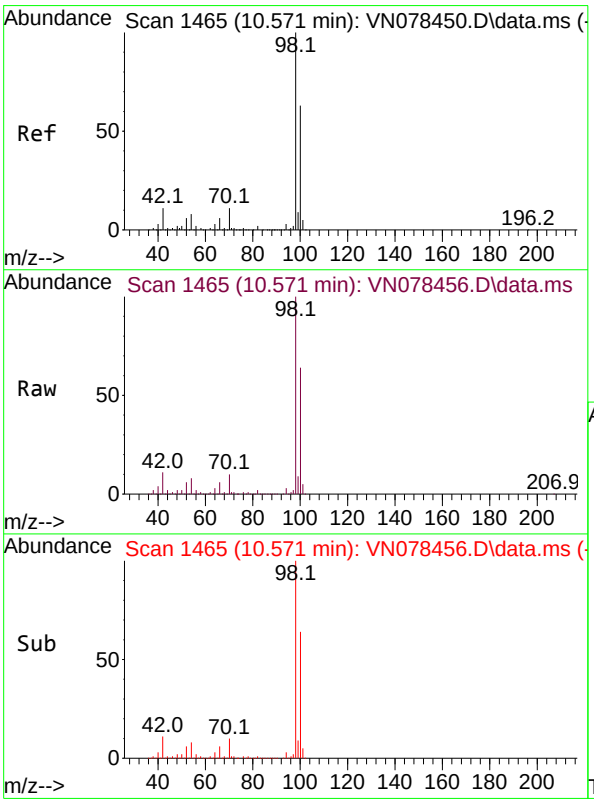
Ion	Ratio	Lower	Upper
88	100		
43	23.8	17.0	25.6
58	63.7	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

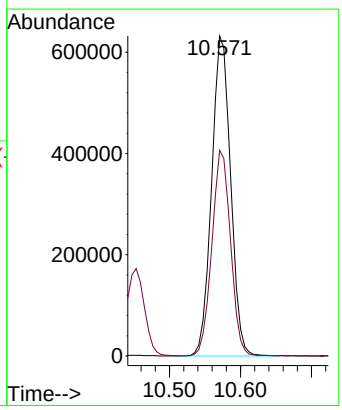
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

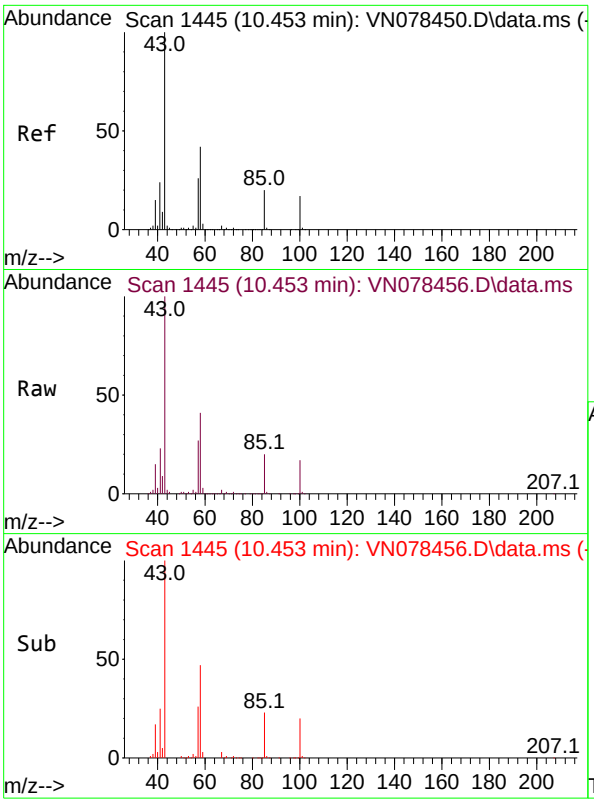


#50
Toluene-d8
Concen: 50.953 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 98 Resp: 1169443

Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 246.578 ug/l
RT: 10.453 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

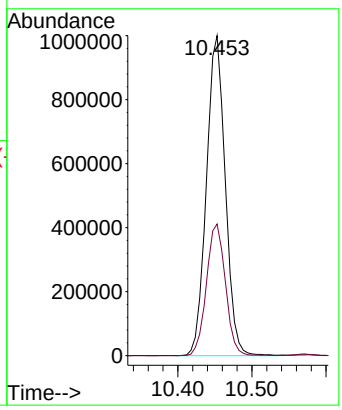
Tgt Ion: 43 Resp: 176583

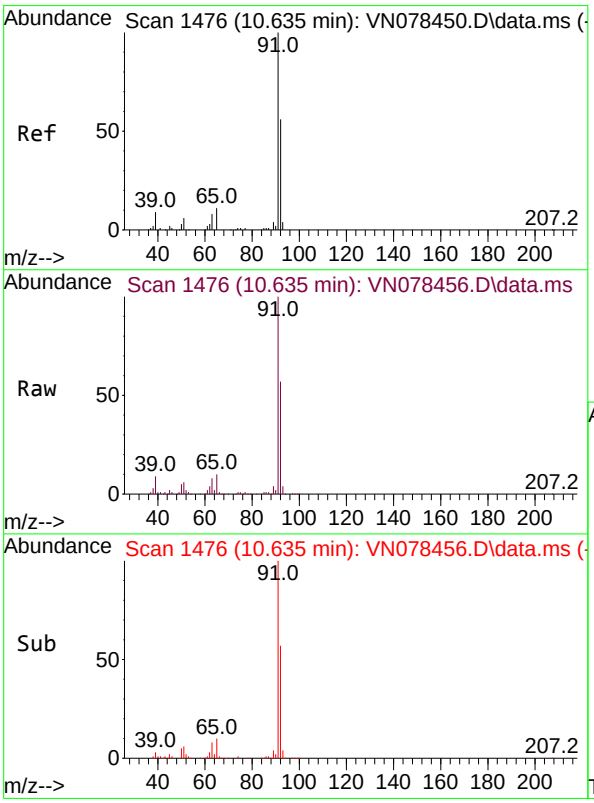
Ion	Ratio	Lower	Upper
43	100		
58	41.5	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

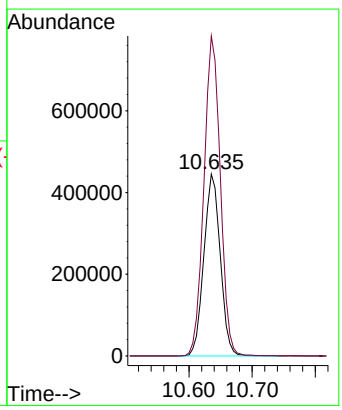


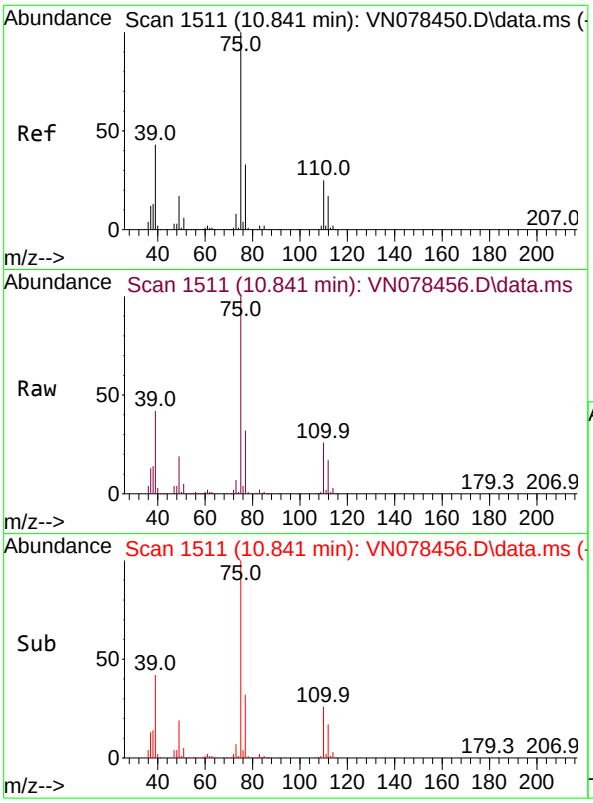


#52
Toluene
Concen: 49.859 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 92 Resp: 803101

Ion	Ratio	Lower	Upper
92	100		
91	176.2	137.4	206.0





#53
t-1,3-Dichloropropene
Concen: 50.745 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

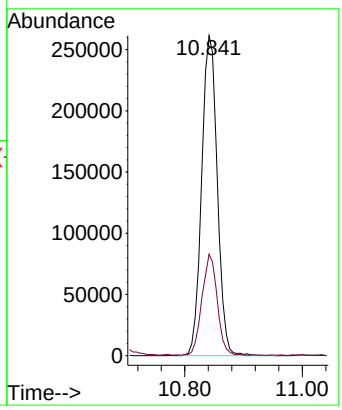
Tgt Ion: 75 Resp: 48279

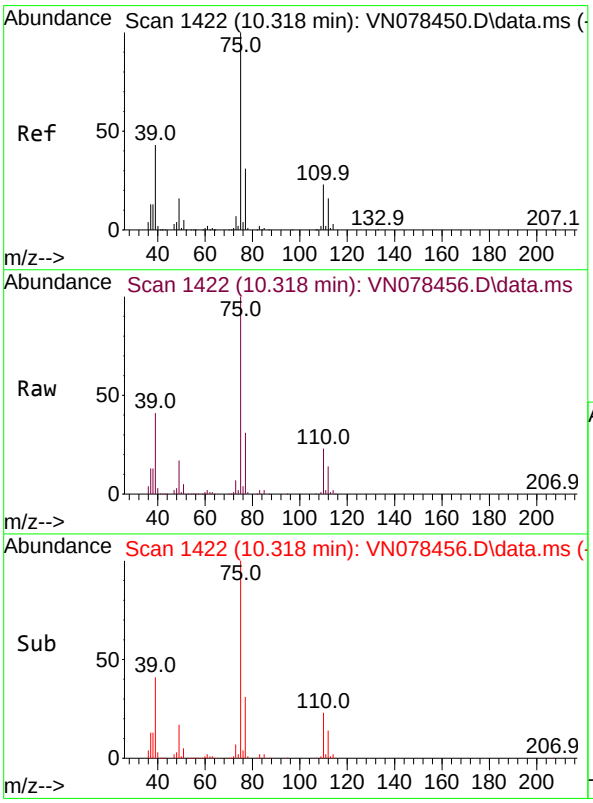
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.0

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

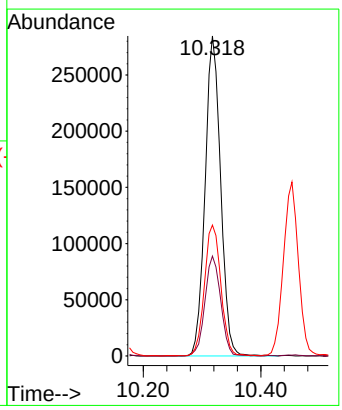


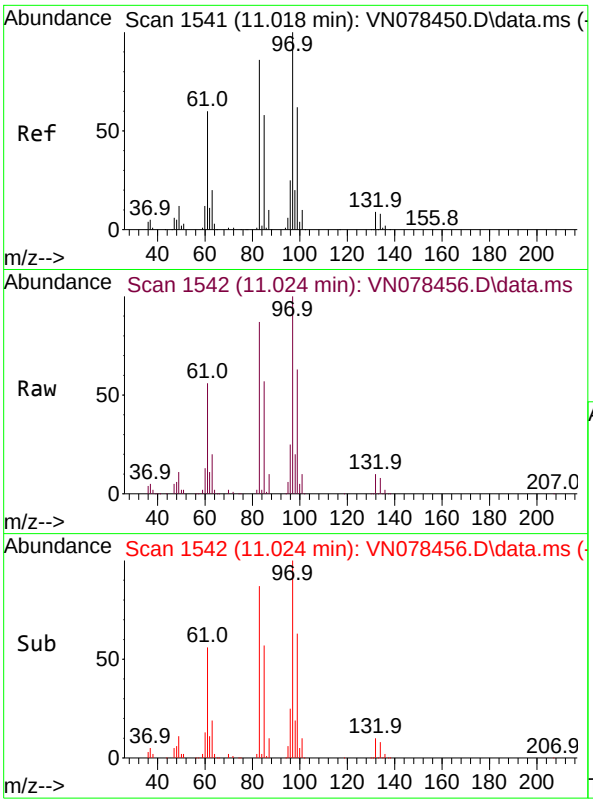


#54
cis-1,3-Dichloropropene
Concen: 51.593 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 75 Resp: 523230

Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.1	39.1
39	40.8	31.6	47.4

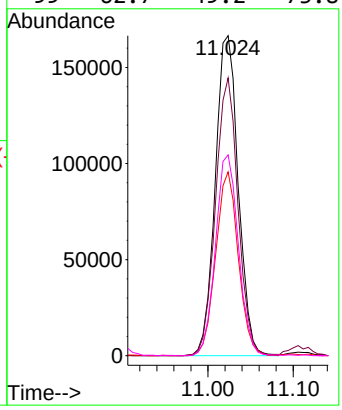




#55
1,1,2-Trichloroethane
Concen: 49.229 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 97 Resp: 31241

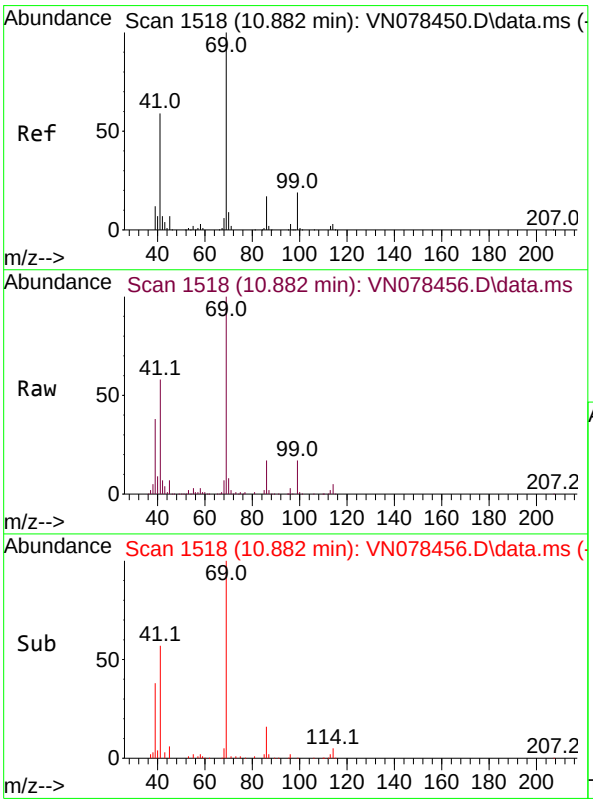
Ion	Ratio	Lower	Upper
97	100		
83	86.8	65.1	97.7
85	57.5	43.4	65.2
99	62.7	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

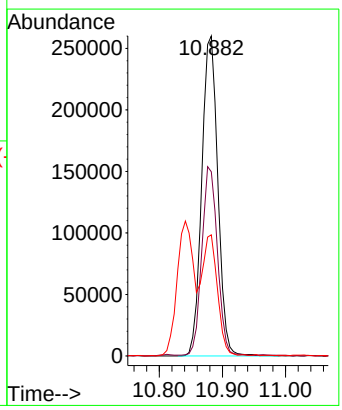
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

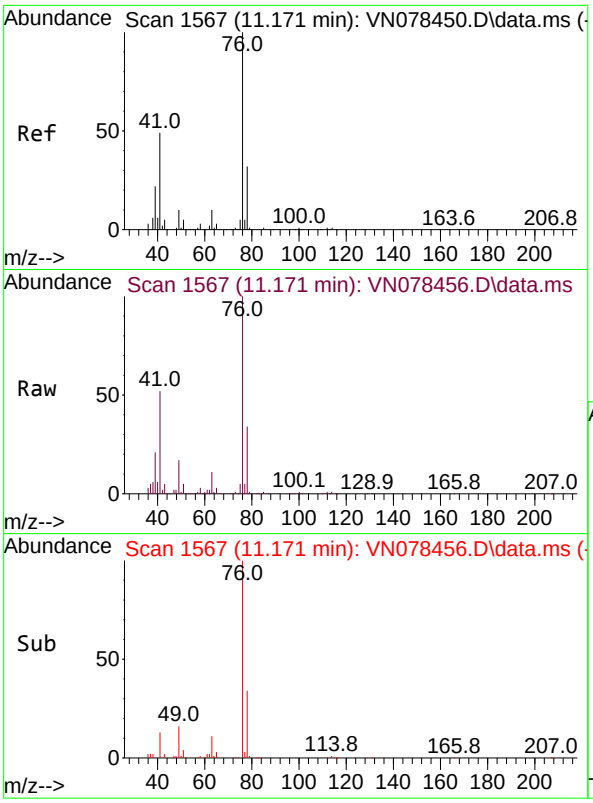


#56
Ethyl methacrylate
Concen: 51.727 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 69 Resp: 458888

Ion	Ratio	Lower	Upper
69	100		
41	57.2	39.6	59.4
39	36.6	28.6	43.0

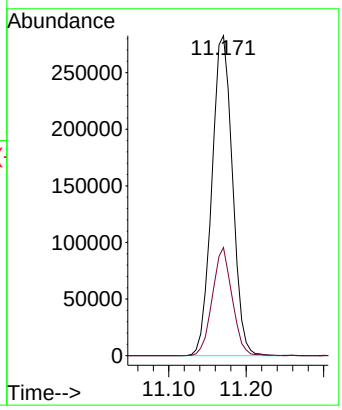




#57
1,3-Dichloropropane
Concen: 48.463 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 76 Resp: 52293

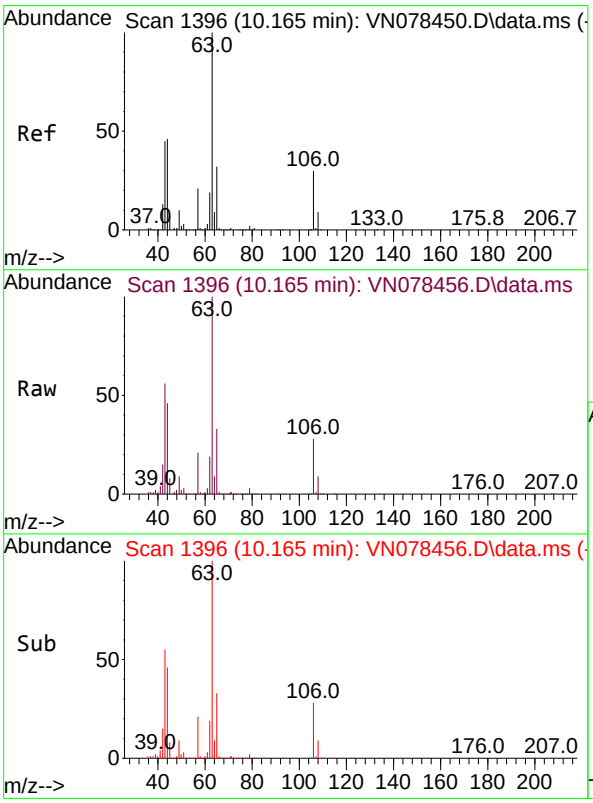
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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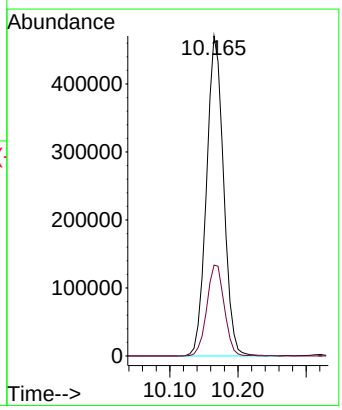
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

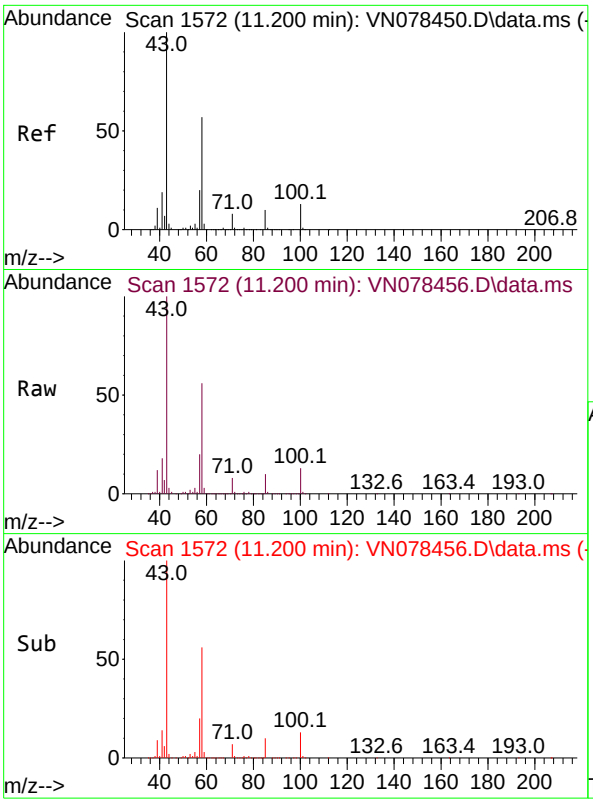


#58
2-Chloroethyl Vinyl ether
Concen: 259.244 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 63 Resp: 819605

Ion	Ratio	Lower	Upper
63	100		
106	29.1	26.2	39.4





#59
2-Hexanone
Concen: 258.916 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

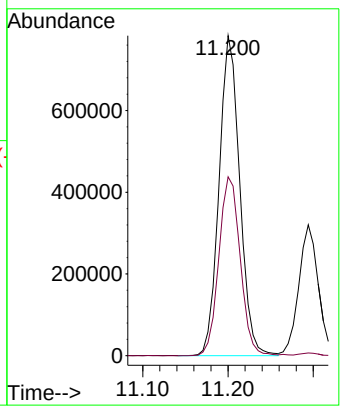
Tgt Ion: 43 Resp: 131779

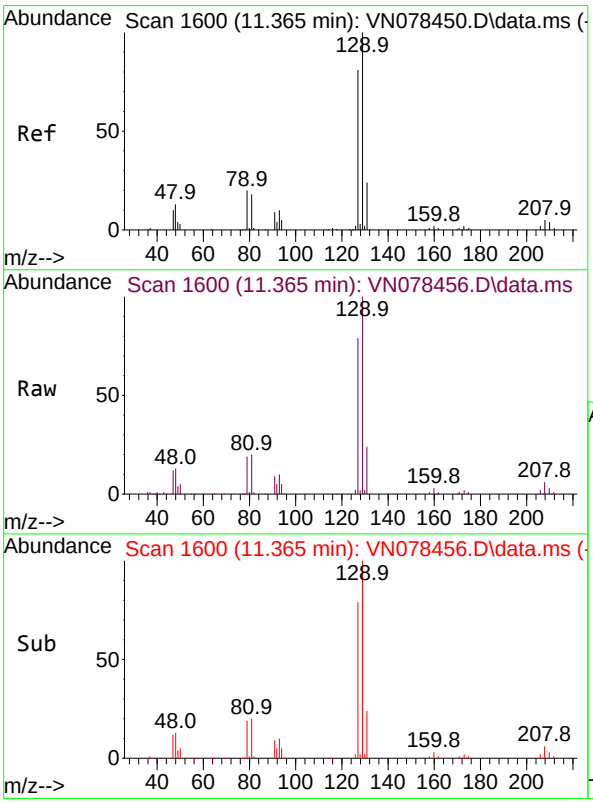
Ion	Ratio	Lower	Upper
43	100		
58	57.8	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

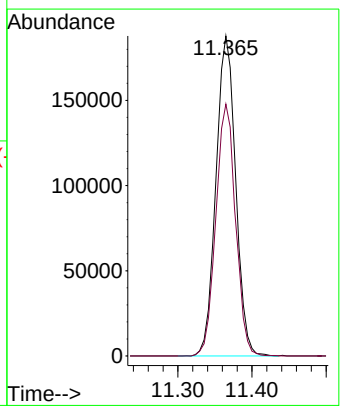


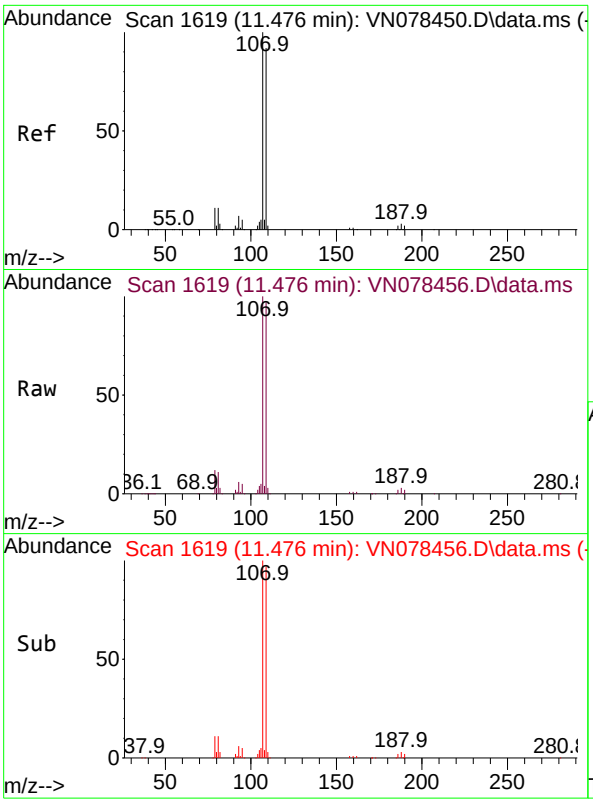


#60
Dibromochloromethane
Concen: 49.458 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:129 Resp: 346514

Ion	Ratio	Lower	Upper
129	100		
127	78.8	38.6	116.0





#61
1,2-Dibromoethane
Concen: 49.185 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

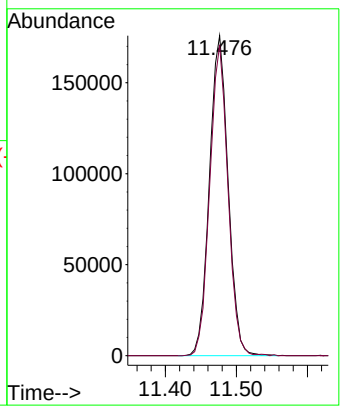
Tgt Ion:107 Resp: 32154

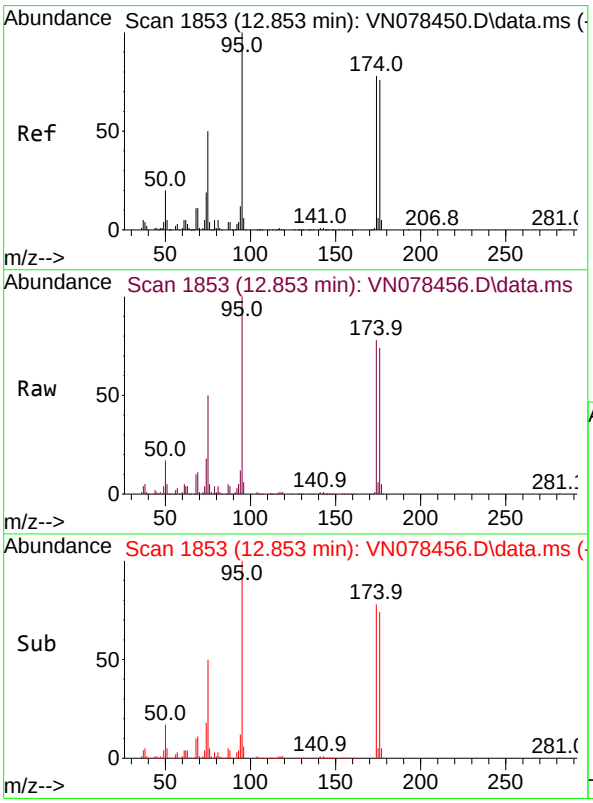
Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.6	114.8

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

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Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

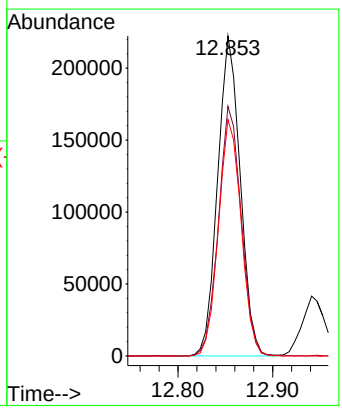


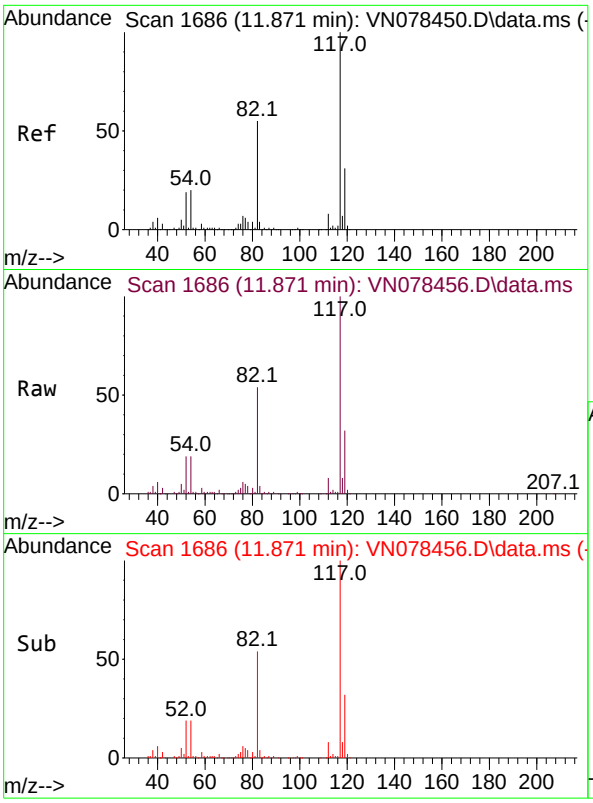


#62
4-Bromofluorobenzene
Concen: 52.132 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 95 Resp: 368551

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	143.8
176	74.3	0.0	135.8

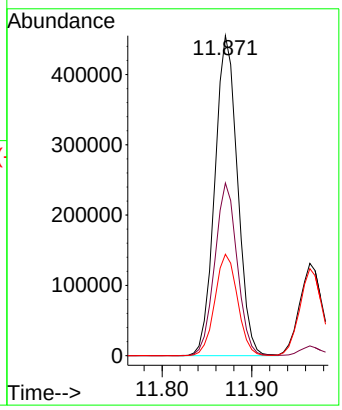




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:117 Resp: 79863

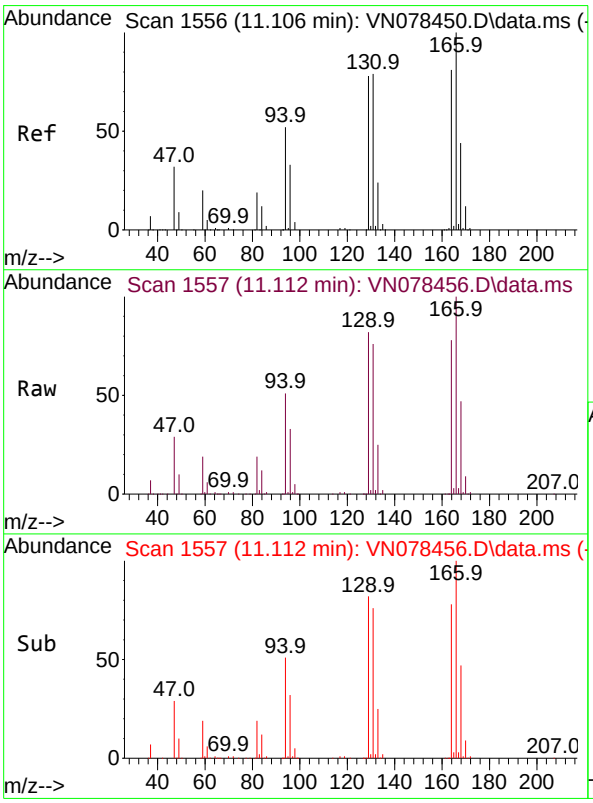
Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.0	66.0
119	31.7	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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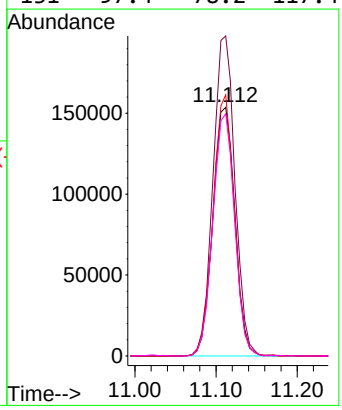
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

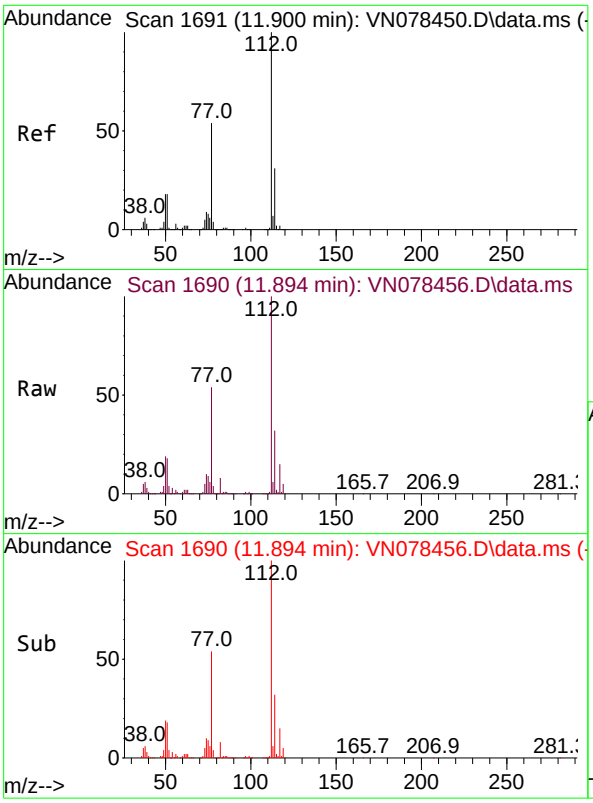


#64
Tetrachloroethene
Concen: 48.545 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:164 Resp: 291480

Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.4	152.0
129	105.0	82.4	123.6
131	97.4	78.2	117.4

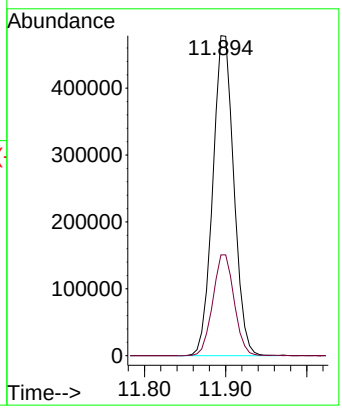




#65
Chlorobenzene
Concen: 48.214 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:112 Resp: 86068

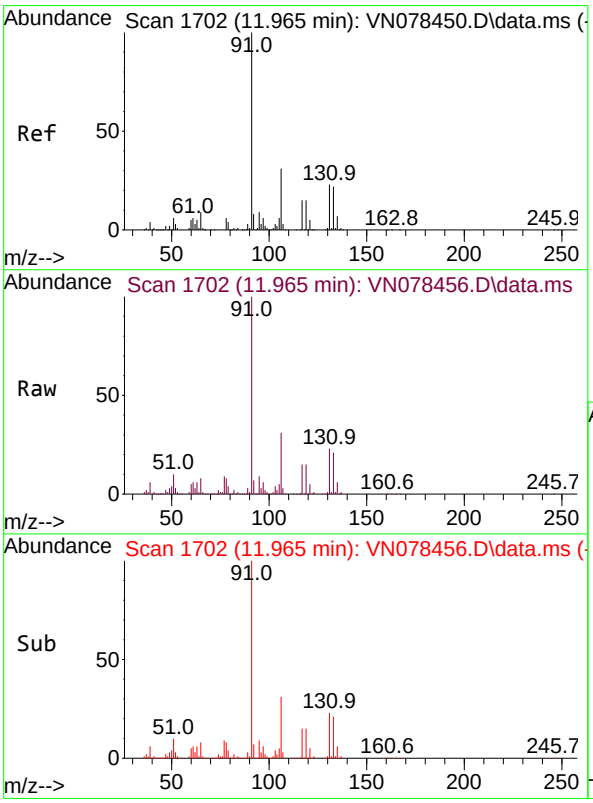
Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

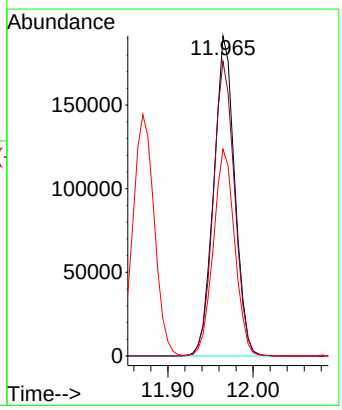
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

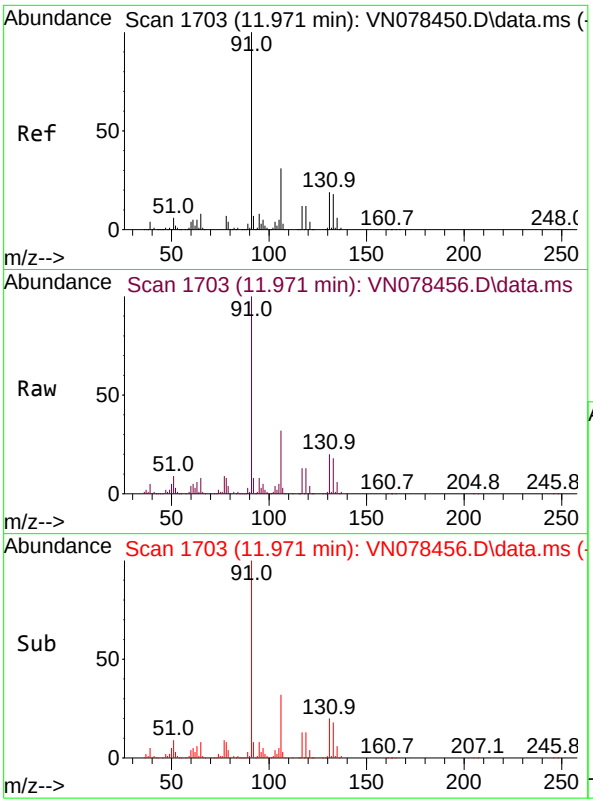


#66
1,1,1,2-Tetrachloroethane
Concen: 47.635 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:131 Resp: 327131

Ion	Ratio	Lower	Upper
131	100		
133	93.8	46.4	139.1
119	66.2	34.1	102.2

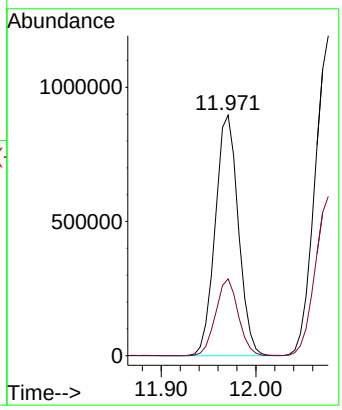




#67
Ethyl Benzene
Concen: 50.401 ug/l
RT: 11.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 91 Resp: 152085

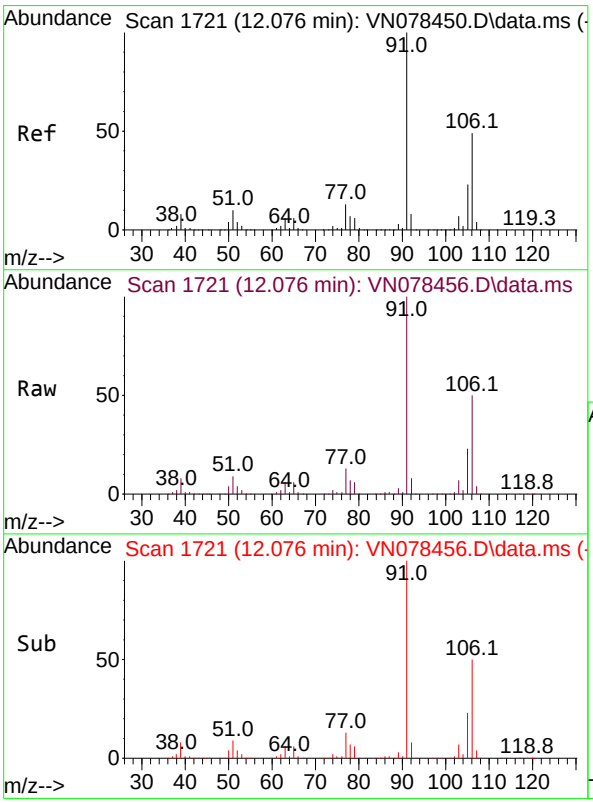
Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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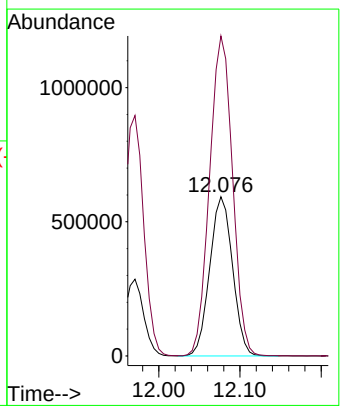
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

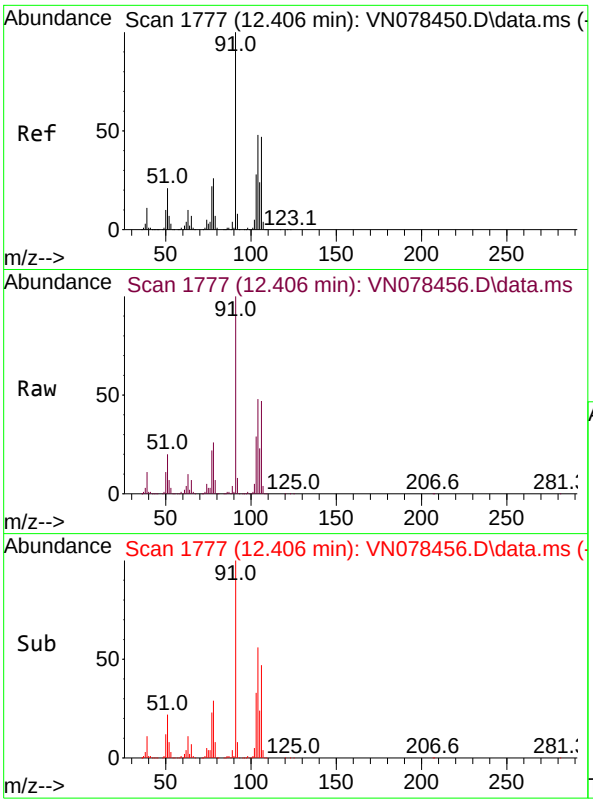


#68
m/p-Xylenes
Concen: 103.800 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:106 Resp: 1158045

Ion	Ratio	Lower	Upper
106	100		
91	202.8	159.6	239.4





#69
o-Xylene
Concen: 50.103 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

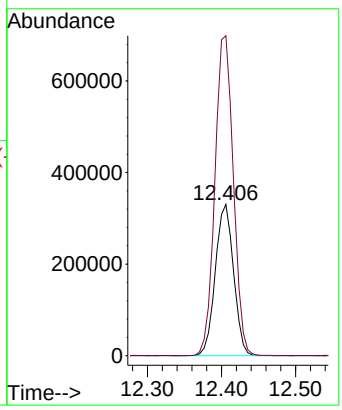
Tgt Ion:106 Resp: 56459

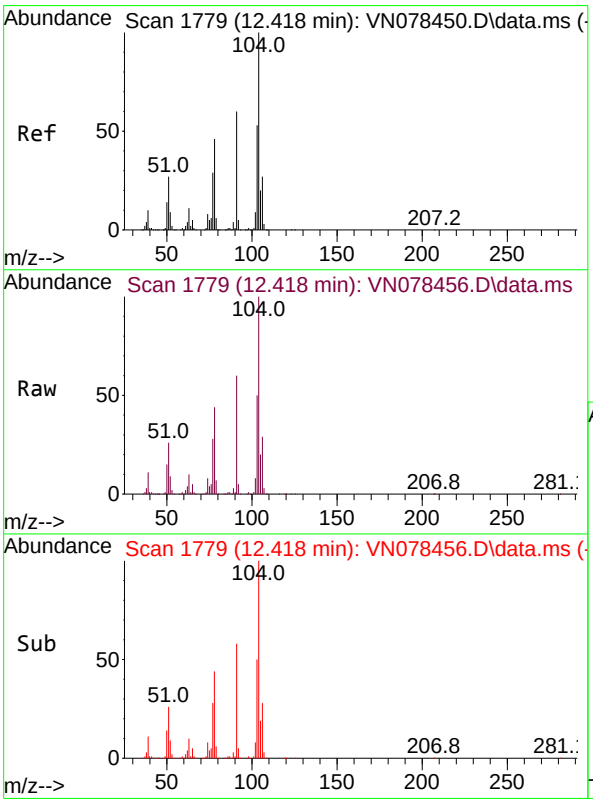
Ion	Ratio	Lower	Upper
106	100		
91	214.1	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

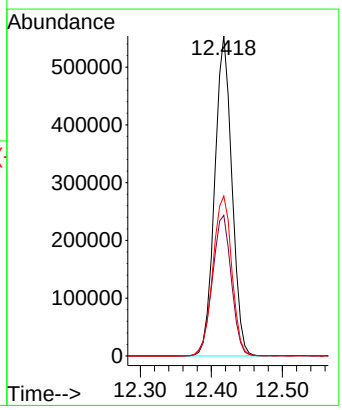


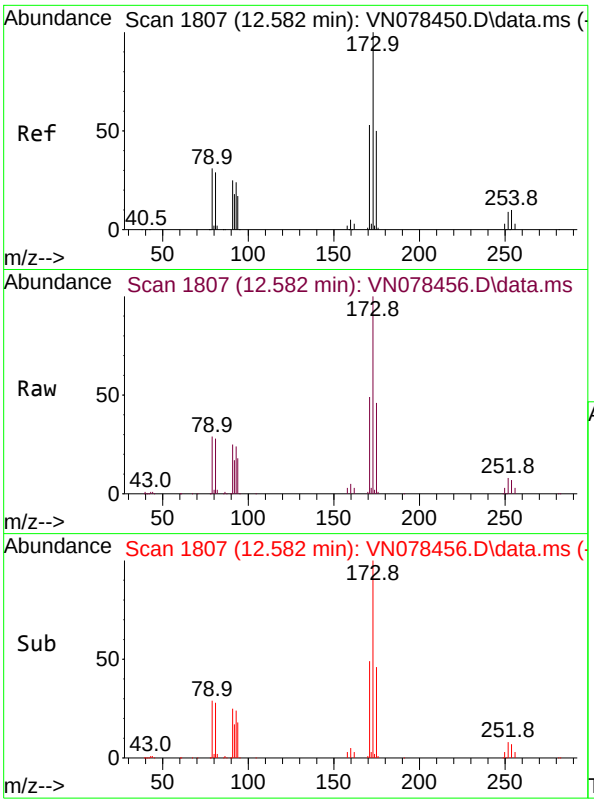


#70
Styrene
Concen: 52.745 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:104 Resp: 929871

Ion	Ratio	Lower	Upper
104	100		
78	48.4	39.5	59.3
103	54.9	43.2	64.8

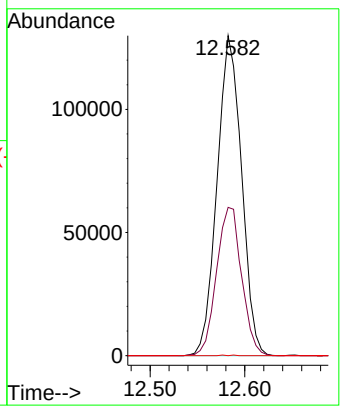




#71
Bromoform
Concen: 50.180 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:173 Resp: 23338

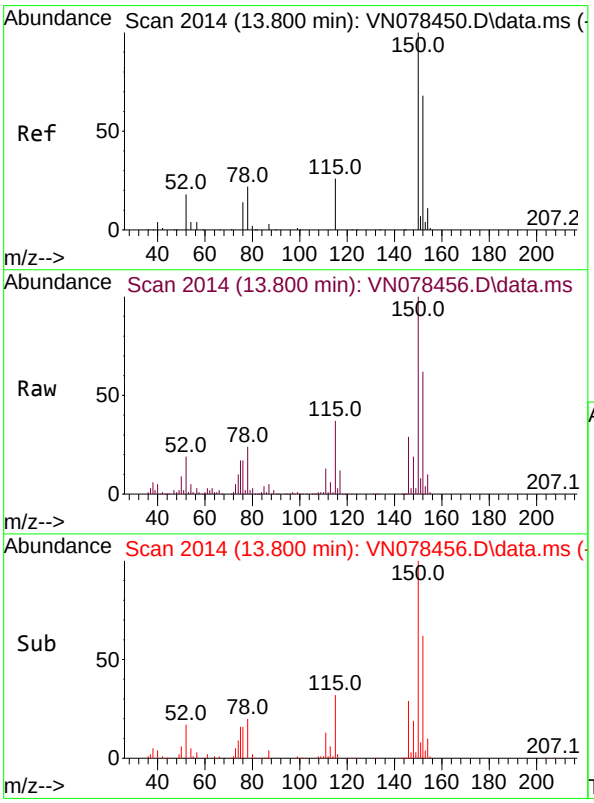
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

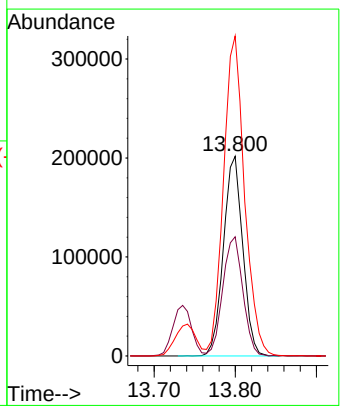
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

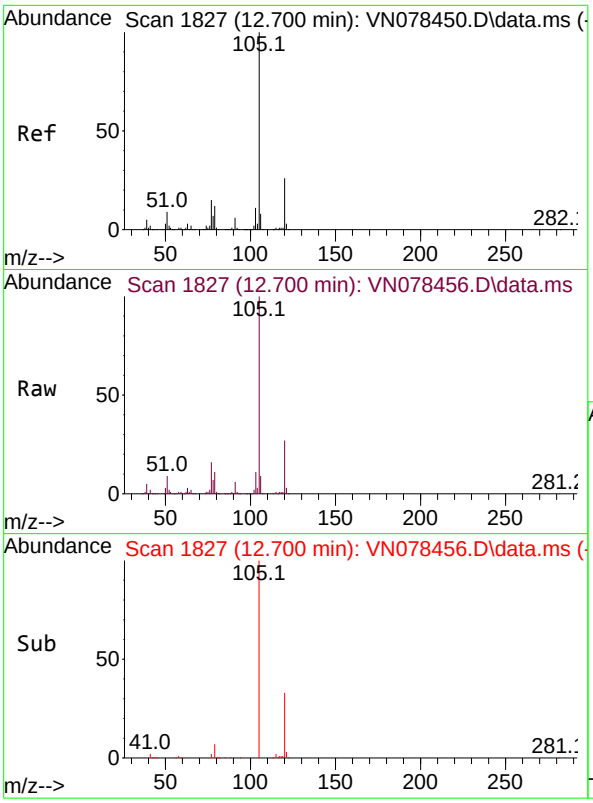


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:152 Resp: 333955

Ion	Ratio	Lower	Upper
152	100		
115	61.9	32.3	96.8
150	173.8	0.0	355.8

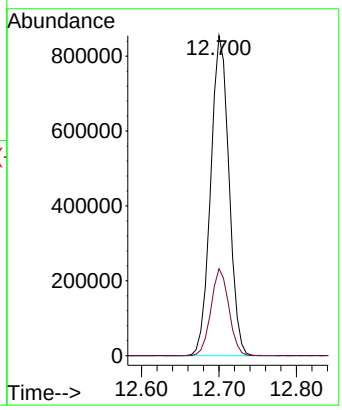




#73
Isopropylbenzene
Concen: 44.561 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:105 Resp: 139831

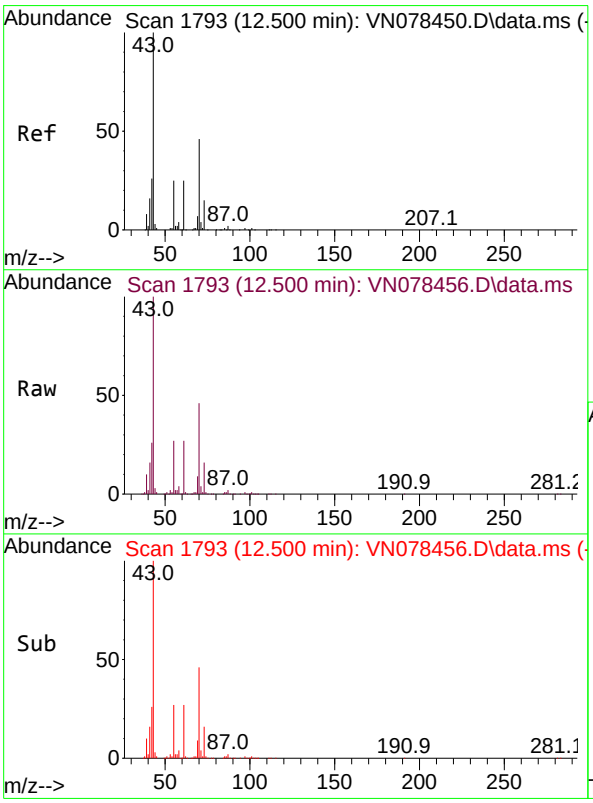
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
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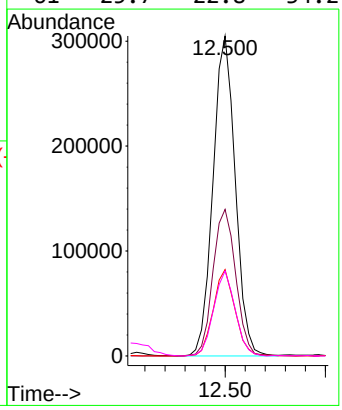
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

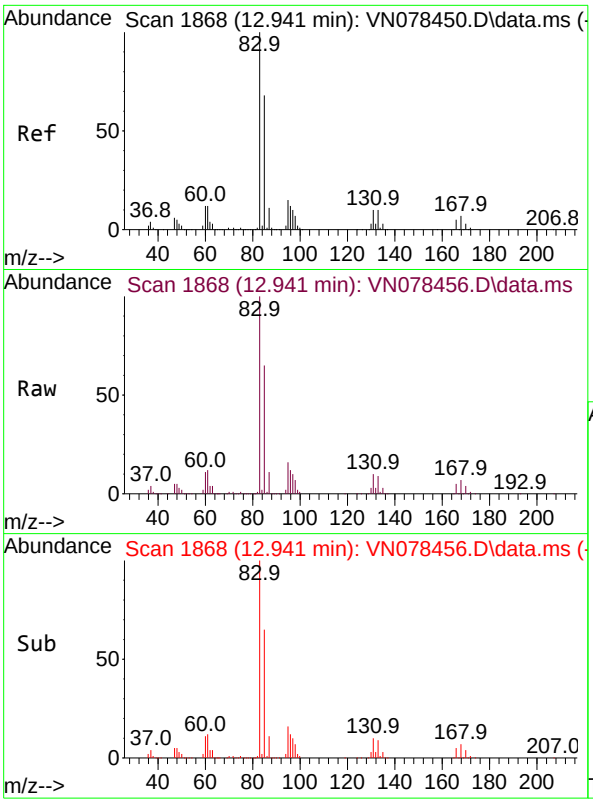


#74
N-amyl acetate
Concen: 43.361 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 43 Resp: 468909

Ion	Ratio	Lower	Upper
43	100		
70	47.0	43.4	65.2
55	26.4	21.4	32.0
61	25.7	22.8	34.2

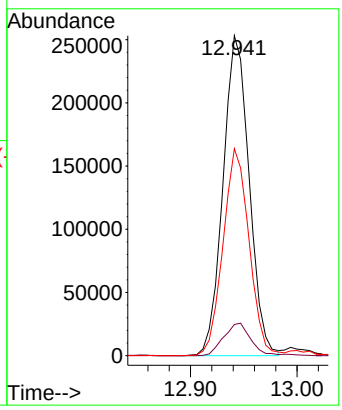




#75
1,1,2,2-Tetrachloroethane
Concen: 49.159 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 83 Resp: 43131

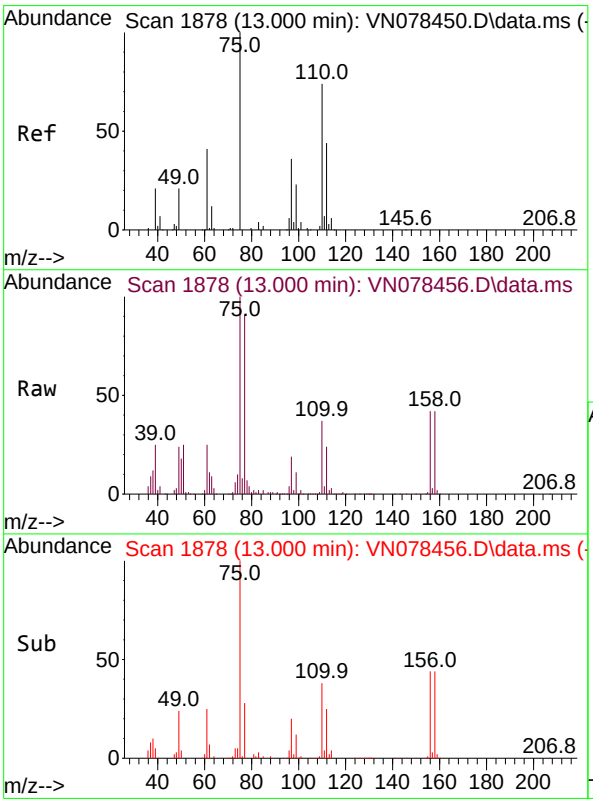
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.0	15.0
85	64.6	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

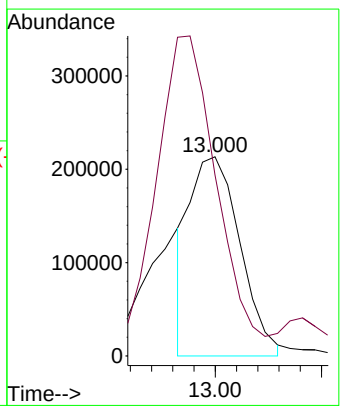
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

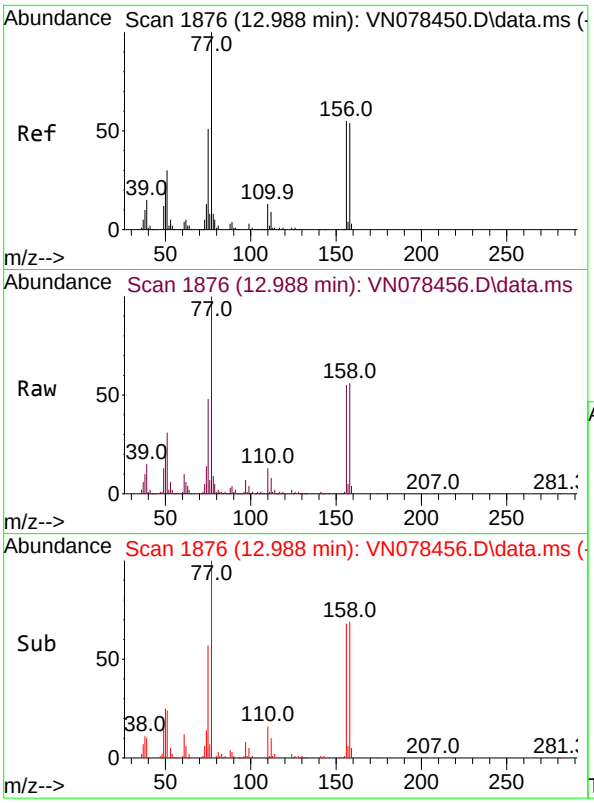


#76
1,2,3-Trichloropropane
Concen: 43.215 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 75 Resp: 348837

Ion	Ratio	Lower	Upper
75	100		
77	196.8	84.5	253.5

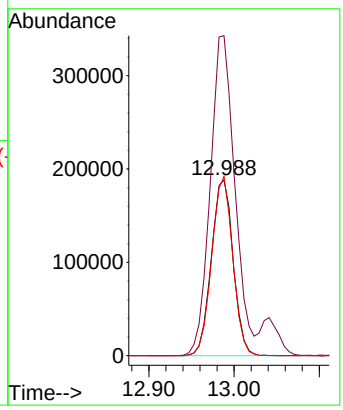




#77
Bromobenzene
Concen: 49.140 ug/l
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:156 Resp: 33551

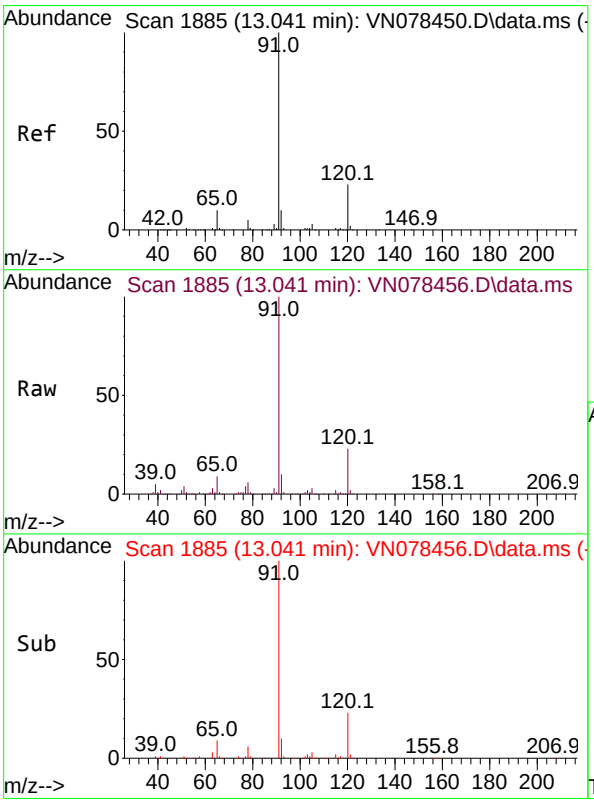
Ion	Ratio	Lower	Upper
156	100		
77	204.6	107.7	323.3
158	98.2	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

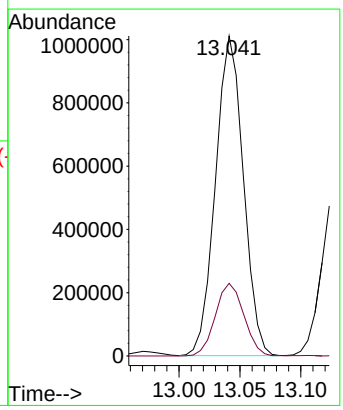
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

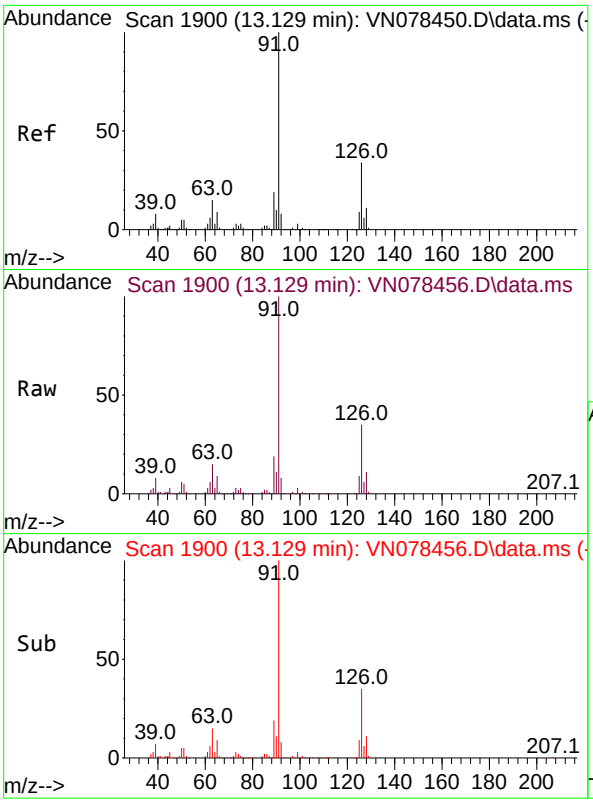


#78
n-propylbenzene
Concen: 47.950 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 91 Resp: 1609138

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4

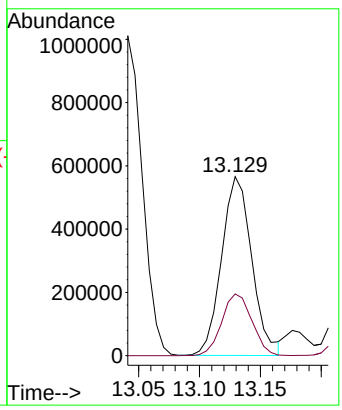




#79
2-Chlorotoluene
Concen: 44.560 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 91 Resp: 97949

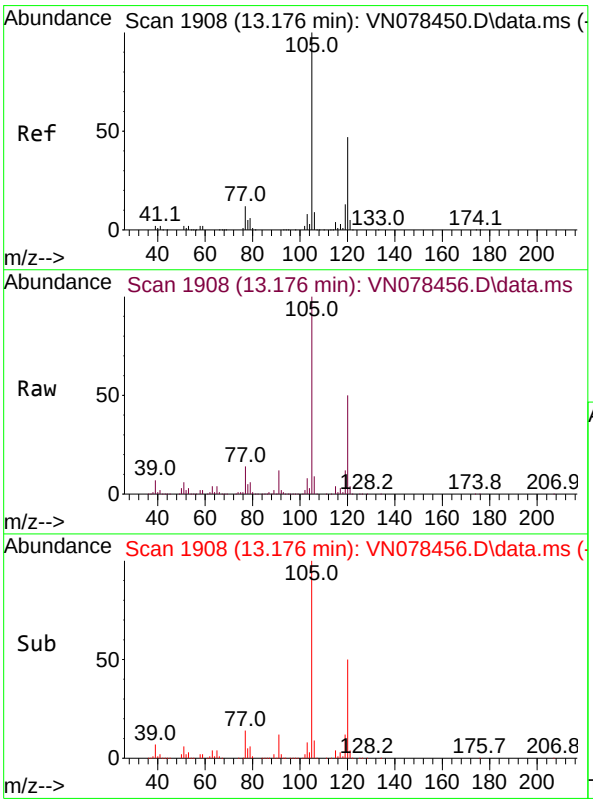
Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

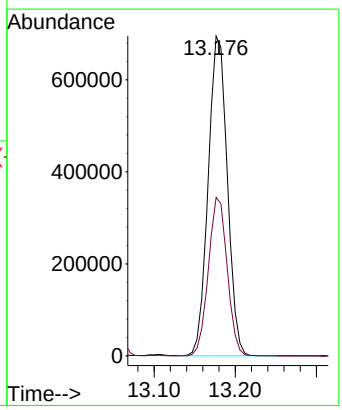
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

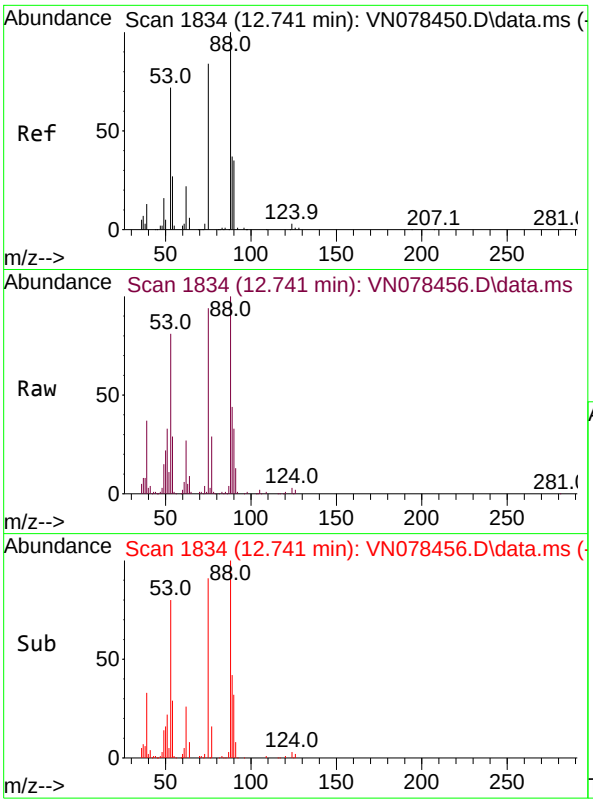


#80
1,3,5-Trimethylbenzene
Concen: 45.892 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:105 Resp: 1137852

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.1	72.3

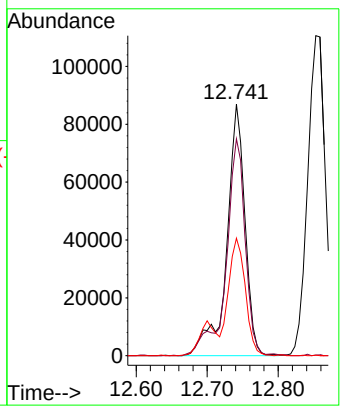




#81
trans-1,4-Dichloro-2-butene
Concen: 50.823 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 75 Resp: 15611

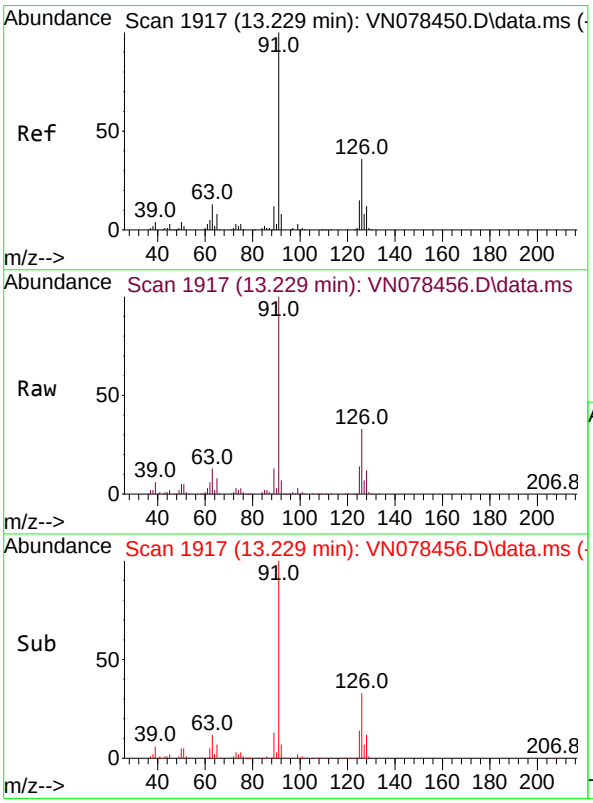
Ion	Ratio	Lower	Upper
75	100		
53	89.5	67.4	101.2
89	42.8	38.8	58.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

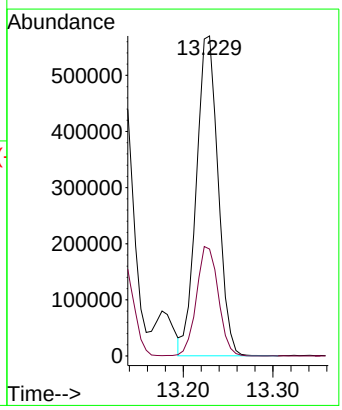
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

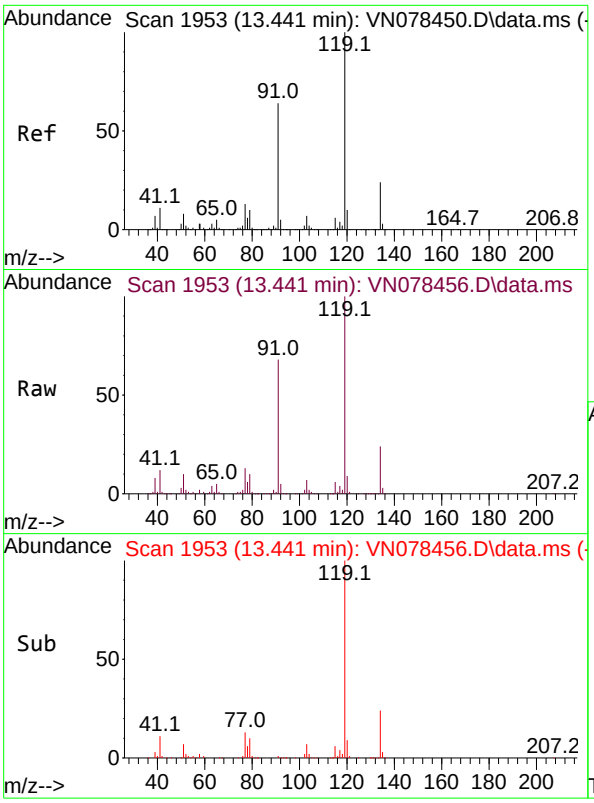


#82
4-Chlorotoluene
Concen: 46.728 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 91 Resp: 958209

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.0

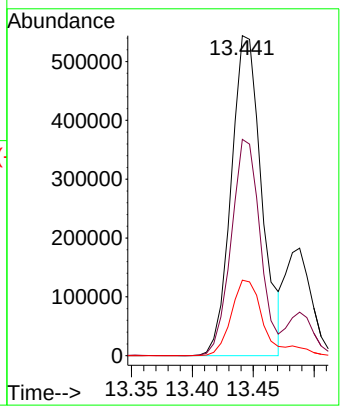




#83
tert-Butylbenzene
Concen: 44.916 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:119 Resp: 94550

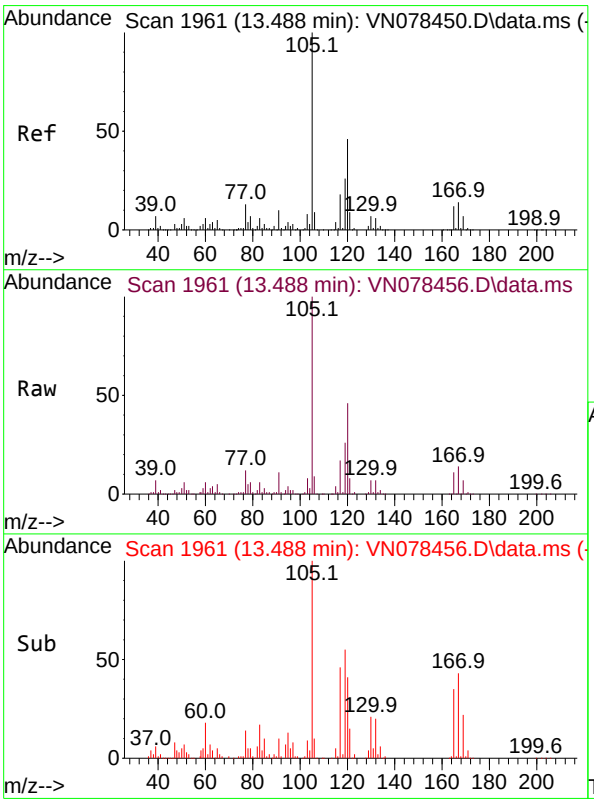
Ion	Ratio	Lower	Upper
119	100		
91	64.7	33.9	101.7
134	25.6	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

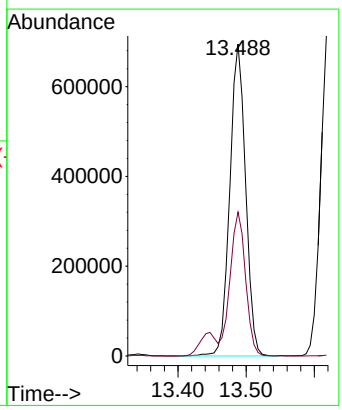
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

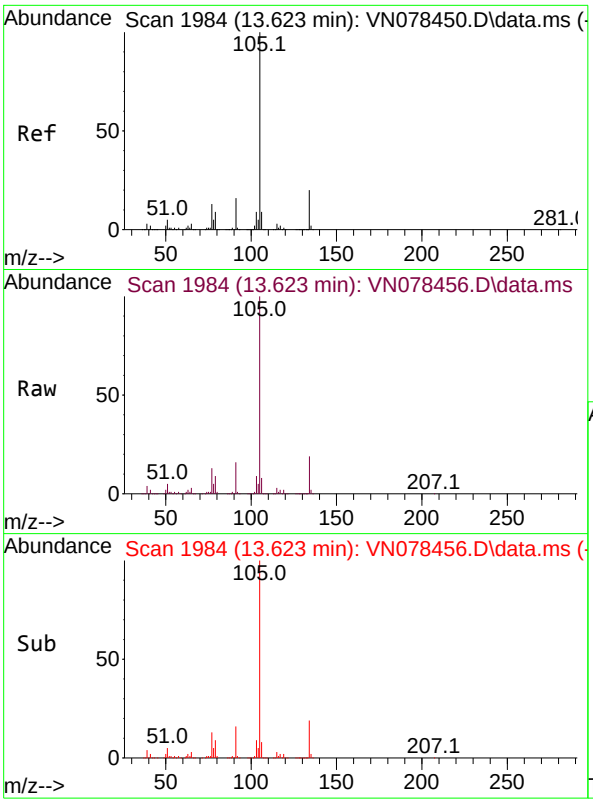


#84
1,2,4-Trimethylbenzene
Concen: 46.502 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:105 Resp: 1119919

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.0	66.0





#85
sec-Butylbenzene
Concen: 46.531 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

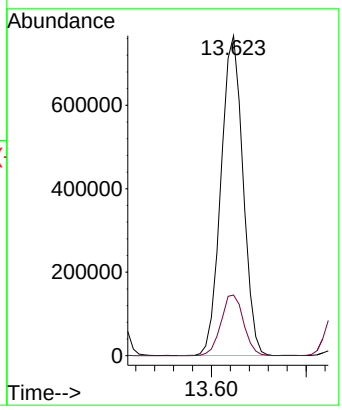
Tgt Ion:105 Resp: 123807

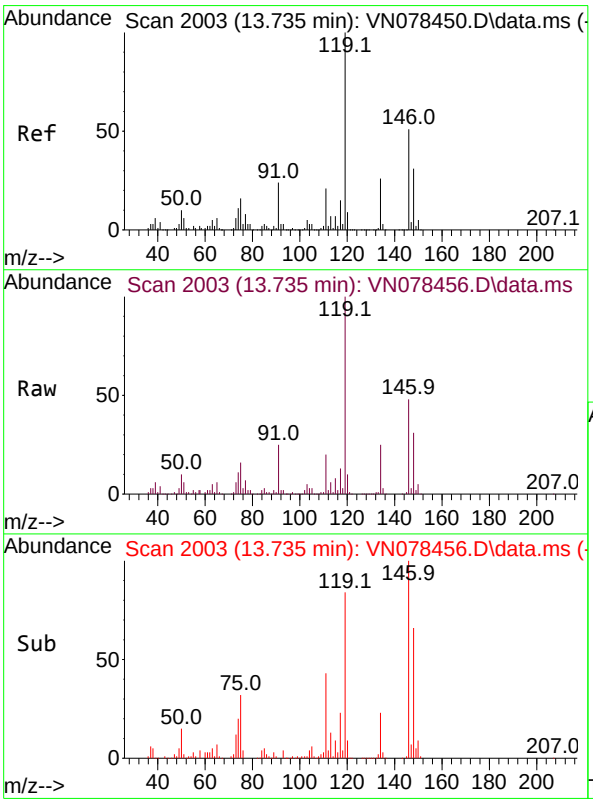
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

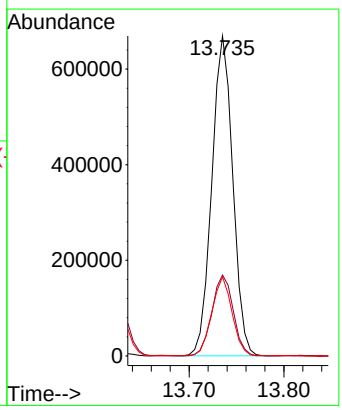


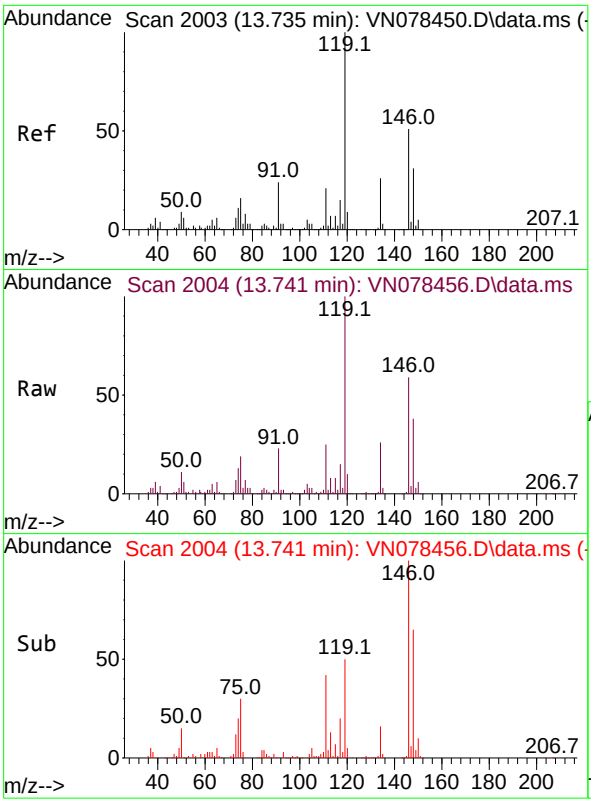


#86
p-Isopropyltoluene
Concen: 48.103 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:119 Resp: 1027718

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	23.8	12.4	37.2

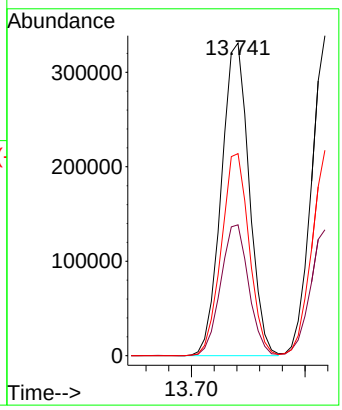




#87
1,3-Dichlorobenzene
Concen: 46.722 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:146 Resp: 5628

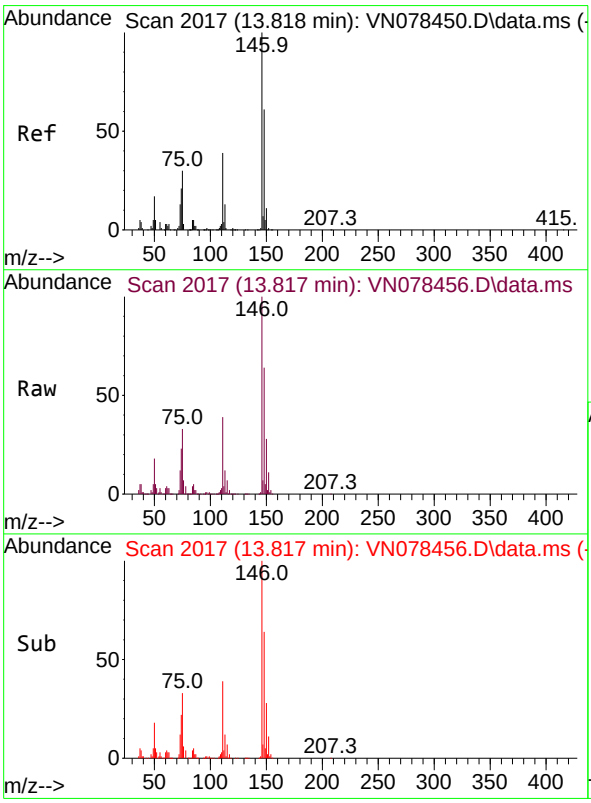
Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.1	66.3
148	64.5	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

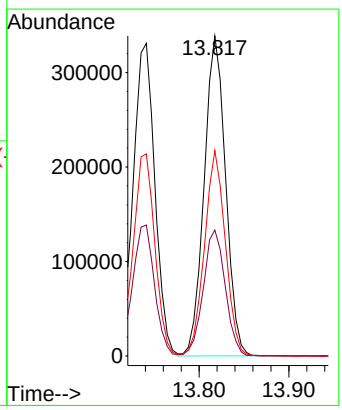
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

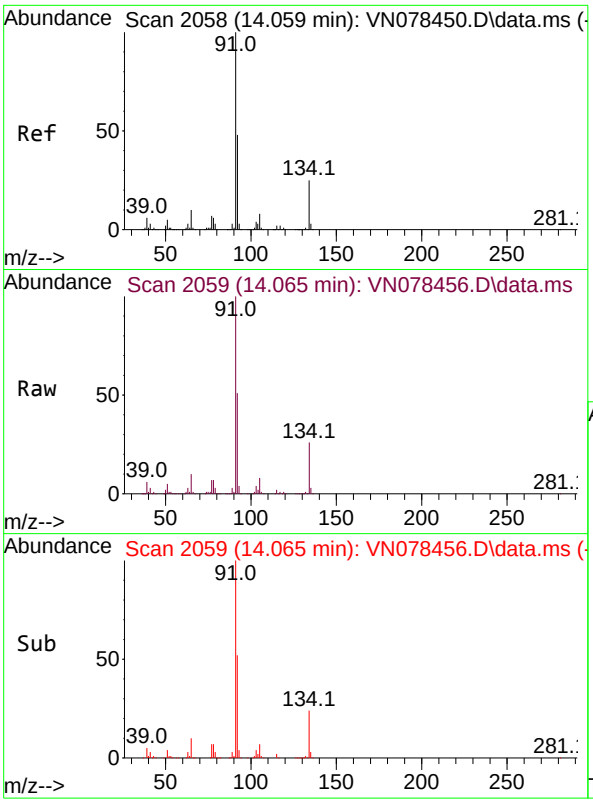


#88
1,4-Dichlorobenzene
Concen: 46.323 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:146 Resp: 562080

Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.6	61.8
148	62.6	31.6	94.8

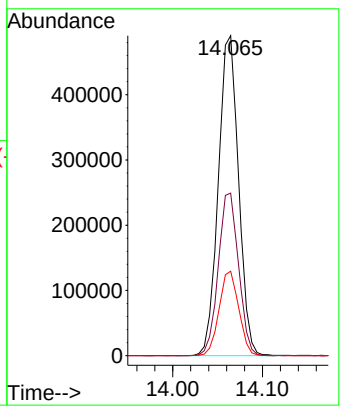




#89
n-Butylbenzene
Concen: 50.273 ug/l
RT: 14.065 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 91 Resp: 76850

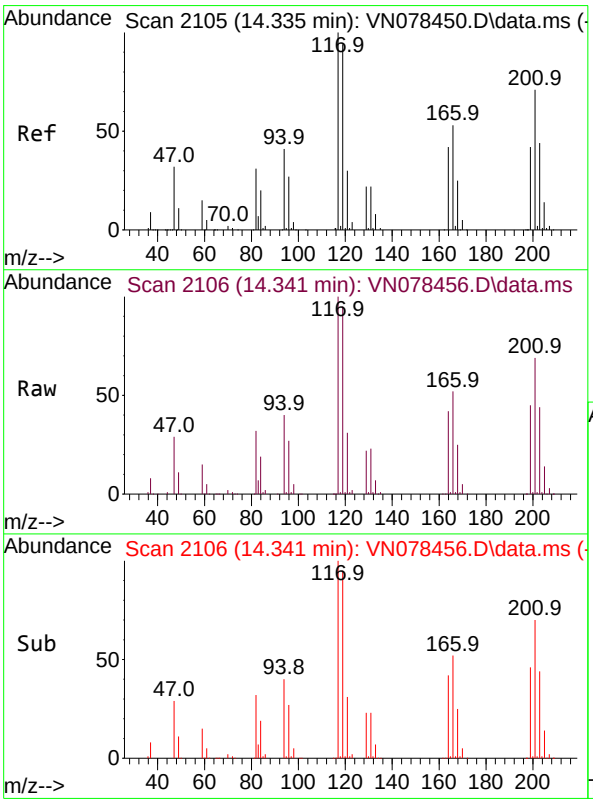
Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.4	79.0
134	25.7	12.6	37.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

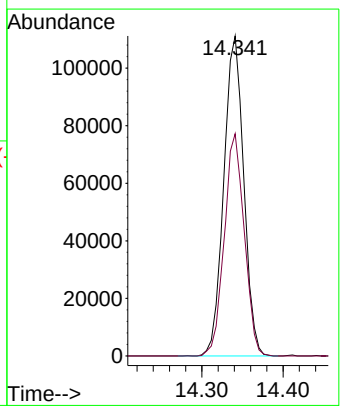
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

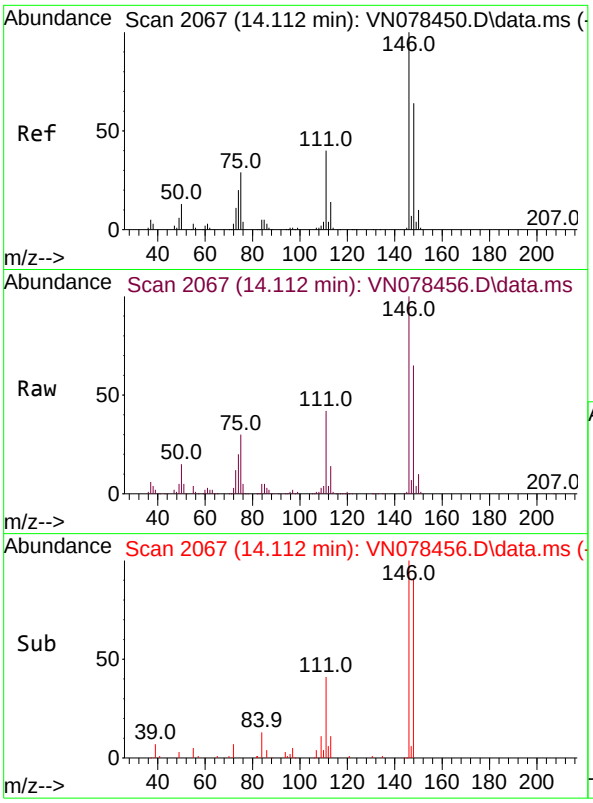


#90
Hexachloroethane
Concen: 48.320 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:117 Resp: 189853

Ion	Ratio	Lower	Upper
117	100		
201	69.6	29.3	88.0

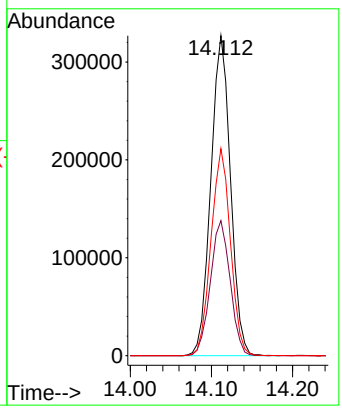




#91
1,2-Dichlorobenzene
Concen: 45.830 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:146 Resp: 54942

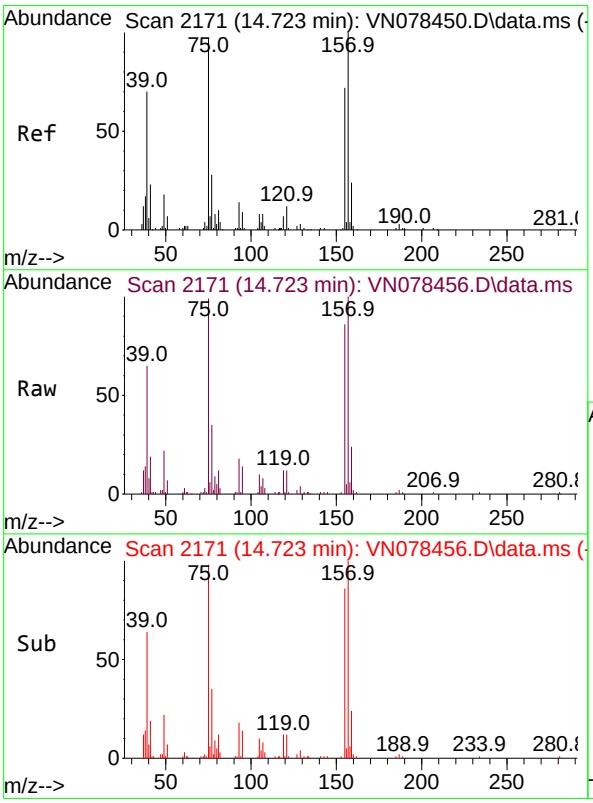
Ion	Ratio	Lower	Upper
146	100		
111	42.6	22.0	66.0
148	64.0	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

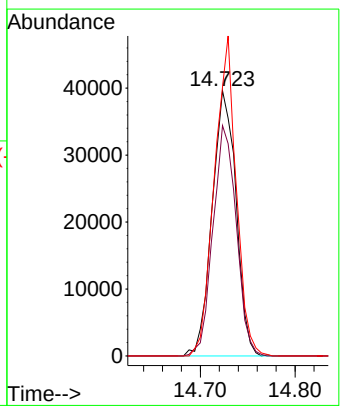
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

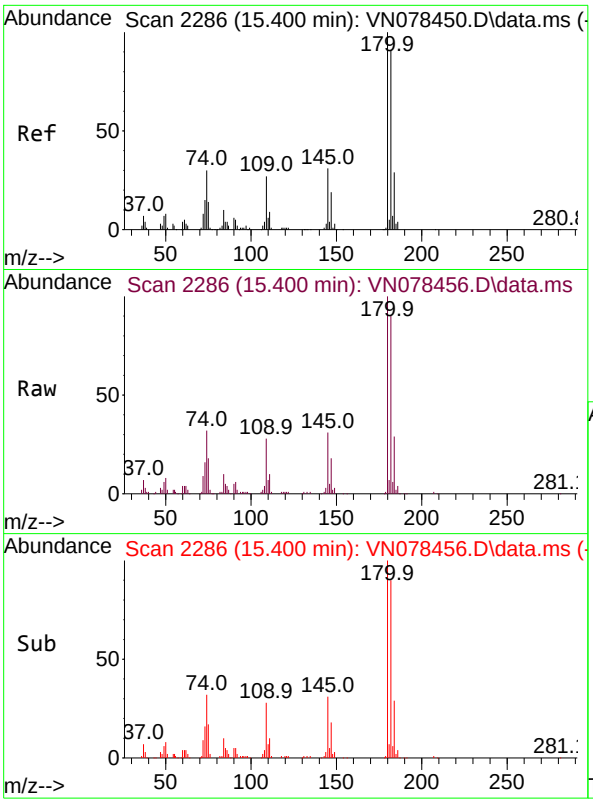


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.010 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion: 75 Resp: 69349

Ion	Ratio	Lower	Upper
75	100		
155	84.6	39.1	117.2
157	110.1	50.3	150.9

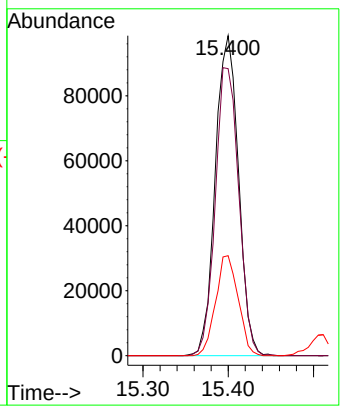




#93
1,2,4-Trichlorobenzene
Concen: 48.609 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:180 Resp: 18598

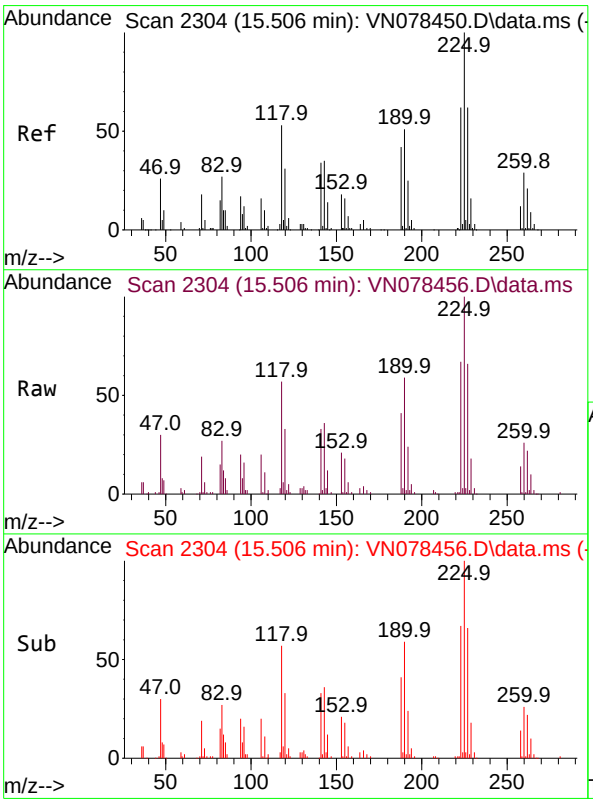
Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.1	138.2
145	30.4	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations APPROVED

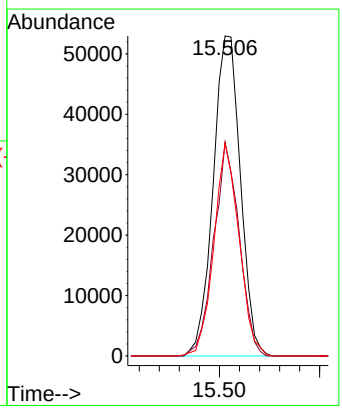
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023

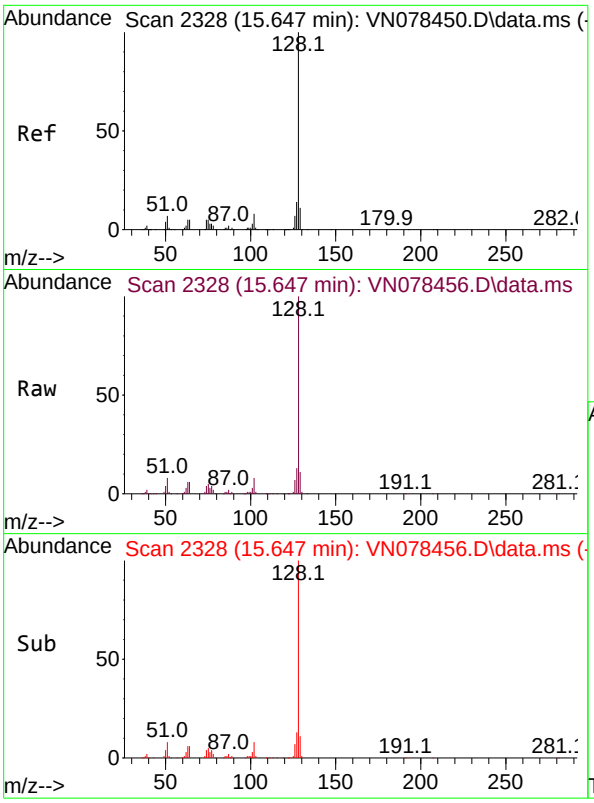


#94
Hexachlorobutadiene
Concen: 50.626 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:225 Resp: 100103

Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.3	93.8
227	61.1	31.9	95.9

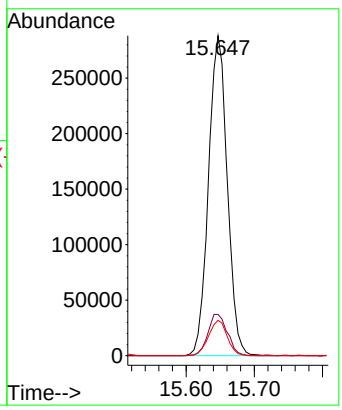




#95
Naphthalene
Concen: 42.252 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:128 Resp: 55267

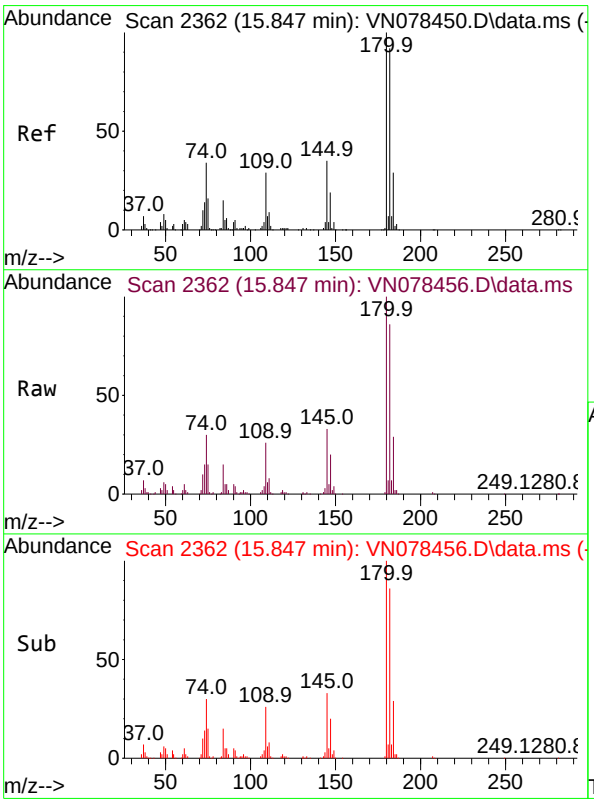
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.0	15.0
129	11.0	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Manual Integrations
APPROVED

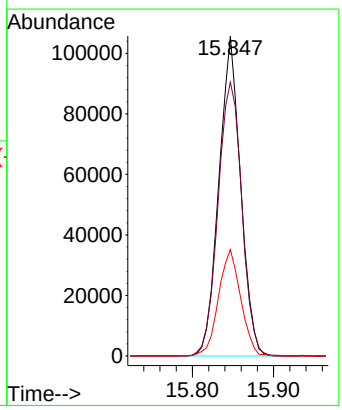
Reviewed By :John Carlone 07/11/2023
Supervised By :Mahesh Dadoda 07/11/2023



#96
1,2,3-Trichlorobenzene
Concen: 44.581 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078456.D
Acq: 10 Jul 2023 16:03

Tgt Ion:180 Resp: 196132

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.2	138.6
145	34.1	17.5	52.6



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.613	0.529	13.7	93	0.00
3	P	Chloromethane	0.666	0.608	8.7	102	0.00
4	C	Vinyl Chloride	0.862	0.805	6.6#	102	0.00
5	T	Bromomethane	0.616	0.509	17.4	93	-0.01
6	T	Chloroethane	0.583	0.490	16.0	89	0.00
7	T	Trichlorofluoromethane	1.030	0.943	8.4	99	0.00
8	T	Diethyl Ether	0.343	0.319	7.0	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.505	7.3	97	-0.01
10	T	Methyl Iodide	0.749	0.707	5.6	97	0.00
11	T	Tert butyl alcohol	0.103	0.094	8.7	94	0.00
12	CM	1,1-Dichloroethene	0.528	0.485	8.1#	96	0.00
13	T	Acrolein	0.102	0.089	12.7	89	0.00
14	T	Allyl chloride	0.721	0.704	2.4	104	0.00
15	T	Acrylonitrile	0.261	0.244	6.5	96	0.00
16	T	Acetone	0.209	0.230	-10.0	120	0.00
17	T	Carbon Disulfide	1.526	1.362	10.7	98	0.00
18	T	Methyl Acetate	0.884	0.783	11.4	94	0.00
19	T	Methyl tert-butyl Ether	1.738	1.648	5.2	96	0.00
20	T	Methylene Chloride	0.674	0.580	13.9	98	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.548	7.9	96	0.00
22	T	Diisopropyl ether	1.614	1.579	2.2	99	0.00
23	T	Vinyl Acetate	1.026	1.016	1.0	97	0.00
24	P	1,1-Dichloroethane	1.088	0.998	8.3	96	0.00
25	T	2-Butanone	0.329	0.329	0.0	103	0.00
26	T	2,2-Dichloropropane	0.890	0.902	-1.3	105	0.00
27	T	cis-1,2-Dichloroethene	0.688	0.652	5.2	98	0.00
28	T	Bromochloromethane	0.512	0.441	13.9	89	0.00
29	T	Tetrahydrofuran	0.216	0.201	6.9	94	0.00
30	C	Chloroform	1.132	1.089	3.8#	98	0.00
31	T	Cyclohexane	0.906	0.814	10.2	101	0.00
32	T	1,1,1-Trichloroethane	1.015	0.962	5.2	96	0.00
33	S	1,2-Dichloroethane-d4	0.670	0.654	2.4	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.339	0.343	-1.2	103	0.00
36	T	1,1-Dichloropropene	0.490	0.482	1.6	100	0.00
37	T	Ethyl Acetate	0.409	0.396	3.2	96	0.00
38	T	Carbon Tetrachloride	0.533	0.513	3.8	97	0.00
39	T	Methylcyclohexane	0.447	0.454	-1.6	101	0.00
40	TM	Benzene	1.452	1.411	2.8	97	0.00
41	T	Methacrylonitrile	0.208	0.196	5.8	95	0.00
42	TM	1,2-Dichloroethane	0.494	0.468	5.3	98	0.00
43	T	Isopropyl Acetate	0.673	0.666	1.0	98	0.00
44	TM	Trichloroethene	0.391	0.371	5.1	99	0.00
45	C	1,2-Dichloropropane	0.368	0.359	2.4#	99	0.00
46	T	Dibromomethane	0.259	0.252	2.7	96	0.00
47	T	Bromodichloromethane	0.519	0.509	1.9	97	0.00
48	T	Methyl methacrylate	0.312	0.309	1.0	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.007	0.0	99	0.00
50	S	Toluene-d8	1.282	1.307	-2.0	103	0.00
51	T	4-Methyl-2-Pentanone	0.400	0.395	1.3	95	0.00
52	CM	Toluene	0.900	0.897	0.3#	99	0.00
53	T	t-1,3-Dichloropropene	0.532	0.539	-1.3	98	0.00
54	T	cis-1,3-Dichloropropene	0.567	0.585	-3.2	98	0.00
55	T	1,1,2-Trichloroethane	0.355	0.349	1.7	99	0.00
56	T	Ethyl methacrylate	0.496	0.513	-3.4	96	0.00
57	T	1,3-Dichloropropane	0.603	0.584	3.2	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.177	0.183	-3.4	98	0.00
59	T	2-Hexanone	0.284	0.294	-3.5	98	0.00
60	T	Dibromochloromethane	0.391	0.387	1.0	96	0.00
61	T	1,2-Dibromoethane	0.365	0.359	1.6	97	0.00
62	S	4-Bromofluorobenzene	0.395	0.412	-4.3	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.376	0.365	2.9	99	0.00
65	PM	Chlorobenzene	1.118	1.078	3.6	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.430	0.410	4.7	96	0.00
67	C	Ethyl Benzene	1.889	1.904	-0.8#	99	0.00
68	T	m/p-Xylenes	0.698	0.725	-3.9	99	0.00
69	T	o-Xylene	0.705	0.707	-0.3	99	0.00
70	T	Styrene	1.104	1.164	-5.4	100	0.00
71	P	Bromoform	0.291	0.292	-0.3	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	4.698	4.187	10.9	98	0.00
74	T	N-amyl acetate	1.619	1.404	13.3	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.586	1.292	18.5	96	0.00
76	T	1,2,3-Trichloropropane	1.209	1.045	13.6	95	0.00
77	T	Bromobenzene	1.154	1.005	12.9	98	0.00
78	T	n-propylbenzene	5.024	4.818	4.1	101	0.00
79	T	2-Chlorotoluene	3.291	2.933	10.9	99	0.00
80	T	1,3,5-Trimethylbenzene	3.712	3.407	8.2	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.460	0.467	-1.5	110	0.00
82	T	4-Chlorotoluene	3.070	2.869	6.5	101	0.00
83	T	tert-Butylbenzene	3.152	2.831	10.2	98	0.00
84	T	1,2,4-Trimethylbenzene	3.606	3.354	7.0	99	0.00
85	T	sec-Butylbenzene	3.984	3.707	7.0	101	0.00
86	T	p-Isopropyltoluene	3.199	3.077	3.8	101	0.00
87	T	1,3-Dichlorobenzene	1.804	1.685	6.6	98	0.00
88	T	1,4-Dichlorobenzene	1.817	1.683	7.4	99	0.00
89	T	n-Butylbenzene	2.289	2.301	-0.5	100	0.00
90	T	Hexachloroethane	0.676	0.568	16.0	99	0.00
91	T	1,2-Dichlorobenzene	1.795	1.645	8.4	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.262	0.208	20.6	93	0.00
93	T	1,2,4-Trichlorobenzene	0.573	0.557	2.8	93	0.00
94	T	Hexachlorobutadiene	0.375	0.300	20.0	94	0.00
95	T	Naphthalene	1.958	1.655	15.5	85	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.659	0.587	10.9	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	43.175	13.7	93	0.00
3	P	Chloromethane	50.000	45.612	8.8	102	0.00
4	C	Vinyl Chloride	50.000	46.703	6.6#	102	0.00
5	T	Bromomethane	50.000	46.343	7.3	93	-0.01
6	T	Chloroethane	50.000	46.895	6.2	89	0.00
7	T	Trichlorofluoromethane	50.000	45.769	8.5	99	0.00
8	T	Diethyl Ether	50.000	46.501	7.0	96	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.262	7.5	97	-0.01
10	T	Methyl Iodide	50.000	47.142	5.7	97	0.00
11	T	Tert butyl alcohol	250.000	226.307	9.5	94	0.00
12	CM	1,1-Dichloroethene	50.000	45.920	8.2#	96	0.00
13	T	Acrolein	250.000	218.892	12.4	89	0.00
14	T	Allyl chloride	50.000	48.794	2.4	104	0.00
15	T	Acrylonitrile	250.000	233.296	6.7	96	0.00
16	T	Acetone	250.000	275.366	-10.1	120	0.00
17	T	Carbon Disulfide	50.000	44.637	10.7	98	0.00
18	T	Methyl Acetate	50.000	44.297	11.4	94	0.00
19	T	Methyl tert-butyl Ether	50.000	47.399	5.2	96	0.00
20	T	Methylene Chloride	50.000	48.416	3.2	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.046	7.9	96	0.00
22	T	Diisopropyl ether	50.000	48.898	2.2	99	0.00
23	T	Vinyl Acetate	250.000	247.568	1.0	97	0.00
24	P	1,1-Dichloroethane	50.000	45.865	8.3	96	0.00
25	T	2-Butanone	250.000	249.973	0.0	103	0.00
26	T	2,2-Dichloropropane	50.000	50.718	-1.4	105	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.431	5.1	98	0.00
28	T	Bromochloromethane	50.000	42.998	14.0	89	0.00
29	T	Tetrahydrofuran	250.000	232.708	6.9	94	0.00
30	C	Chloroform	50.000	48.065	3.9#	98	0.00
31	T	Cyclohexane	50.000	44.945	10.1	101	0.00
32	T	1,1,1-Trichloroethane	50.000	47.368	5.3	96	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.801	2.4	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.573	-1.1	103	0.00
36	T	1,1-Dichloropropene	50.000	49.155	1.7	100	0.00
37	T	Ethyl Acetate	50.000	48.483	3.0	96	0.00
38	T	Carbon Tetrachloride	50.000	48.160	3.7	97	0.00
39	T	Methylcyclohexane	50.000	50.755	-1.5	101	0.00
40	TM	Benzene	50.000	48.595	2.8	97	0.00
41	T	Methacrylonitrile	50.000	46.968	6.1	95	0.00
42	TM	1,2-Dichloroethane	50.000	47.424	5.2	98	0.00
43	T	Isopropyl Acetate	50.000	49.495	1.0	98	0.00
44	TM	Trichloroethene	50.000	47.350	5.3	99	0.00
45	C	1,2-Dichloropropane	50.000	48.758	2.5#	99	0.00
46	T	Dibromomethane	50.000	48.764	2.5	96	0.00
47	T	Bromodichloromethane	50.000	49.039	1.9	97	0.00
48	T	Methyl methacrylate	50.000	49.505	1.0	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	994.827	0.5	99	0.00
50	S	Toluene-d8	50.000	50.953	-1.9	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	246.578	1.4	95	0.00
52	CM	Toluene	50.000	49.859	0.3#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	50.745	-1.5	98	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.593	-3.2	98	0.00
55	T	1,1,2-Trichloroethane	50.000	49.229	1.5	99	0.00
56	T	Ethyl methacrylate	50.000	51.727	-3.5	96	0.00
57	T	1,3-Dichloropropane	50.000	48.463	3.1	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.244	-3.7	98	0.00
59	T	2-Hexanone	250.000	258.916	-3.6	98	0.00
60	T	Dibromochloromethane	50.000	49.458	1.1	96	0.00
61	T	1,2-Dibromoethane	50.000	49.185	1.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	52.132	-4.3	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	48.545	2.9	99	0.00
65	PM	Chlorobenzene	50.000	48.214	3.6	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	47.635	4.7	96	0.00
67	C	Ethyl Benzene	50.000	50.401	-0.8#	99	0.00
68	T	m/p-Xylenes	100.000	103.800	-3.8	99	0.00
69	T	o-Xylene	50.000	50.103	-0.2	99	0.00
70	T	Styrene	50.000	52.745	-5.5	100	0.00
71	P	Bromoform	50.000	50.180	-0.4	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73	T	Isopropylbenzene	50.000	44.561	10.9	98	0.00
74	T	N-amyl acetate	50.000	43.361	13.3	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.159	1.7	96	0.00
76	T	1,2,3-Trichloropropane	50.000	43.215	13.6	95	0.00
77	T	Bromobenzene	50.000	49.140	1.7	98	0.00
78	T	n-propylbenzene	50.000	47.950	4.1	101	0.00
79	T	2-Chlorotoluene	50.000	44.560	10.9	99	0.00
80	T	1,3,5-Trimethylbenzene	50.000	45.892	8.2	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.823	-1.6	110	0.00
82	T	4-Chlorotoluene	50.000	46.728	6.5	101	0.00
83	T	tert-Butylbenzene	50.000	44.916	10.2	98	0.00
84	T	1,2,4-Trimethylbenzene	50.000	46.502	7.0	99	0.00
85	T	sec-Butylbenzene	50.000	46.531	6.9	101	0.00
86	T	p-Isopropyltoluene	50.000	48.103	3.8	101	0.00
87	T	1,3-Dichlorobenzene	50.000	46.722	6.6	98	0.00
88	T	1,4-Dichlorobenzene	50.000	46.323	7.4	99	0.00
89	T	n-Butylbenzene	50.000	50.273	-0.5	100	0.00
90	T	Hexachloroethane	50.000	48.320	3.4	99	0.00
91	T	1,2-Dichlorobenzene	50.000	45.830	8.3	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.010	8.0	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.609	2.8	93	0.00
94	T	Hexachlorobutadiene	50.000	50.626	-1.3	94	0.00
95	T	Naphthalene	50.000	42.252	15.5	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078456.D
Acq On : 10 Jul 2023 16:03
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071023

Quant Time: Jul 11 01:31:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	44.581	10.8	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_Y Calibration Date(s): 07/13/2023 07/13/2023

Heated Purge: (Y/N) Y Calibration Time(s): 09:05 13:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY014620.D RRF010 = VY014621.D RRF050 = VY014623.D
RRF100 = VY014624.D RRF150 = VY014625.D RRF020 = VY014627.D

COMPOUND	RRF005	RRF010	RRF050	RRF100	RRF150	RRF020	RRF	% RSD
Dichlorodifluoromethane	0.466	0.449	0.389	0.402	0.370	0.367	0.407	10.2
Chloromethane	0.508	0.467	0.448	0.453	0.418	0.453	0.458	6.4
Vinyl Chloride	0.548	0.519	0.516	0.517	0.474	0.497	0.512	4.8
Bromomethane	0.361	0.339	0.335	0.308		0.348	0.338	5.8
Chloroethane	0.338	0.319	0.325	0.326	0.289	0.321	0.320	5.2
Trichlorofluoromethane	0.877	0.849	0.877	0.898	0.819	0.837	0.860	3.4
1,1,2-Trichlorotrifluoroethane	0.540	0.505	0.542	0.552	0.510	0.511	0.527	3.8
1,1-Dichloroethene	0.494	0.480	0.505	0.514	0.472	0.490	0.492	3.2
Acetone	0.177	0.144	0.194	0.187	0.164	0.217	0.181	14
Carbon Disulfide	1.547	1.429	1.397	1.419	1.307	1.359	1.410	5.7
Methyl tert-butyl Ether	1.561	1.466	1.635	1.675	1.557	1.702	1.599	5.5
Methyl Acetate	0.652	0.613	0.704	0.739	0.690	0.760	0.693	7.9
Methylene Chloride	0.878	0.620	0.604	0.588	0.540	0.709	0.656	18.5
trans-1,2-Dichloroethene	0.580	0.546	0.566	0.573	0.527	0.560	0.559	3.5
1,1-Dichloroethane	1.018	0.956	1.044	1.054	0.980	1.050	1.017	4
Cyclohexane	1.137	0.959	0.915	0.915	0.847	0.903	0.946	10.6
2-Butanone	0.261	0.223	0.270	0.275	0.248	0.308	0.264	10.7
Carbon Tetrachloride	0.506	0.473	0.524	0.530	0.492	0.494	0.503	4.2
cis-1,2-Dichloroethene	0.668	0.614	0.668	0.670	0.618	0.665	0.650	4.1
Bromochloromethane	0.462	0.478	0.419	0.430	0.415	0.424	0.438	5.9
Chloroform	1.073	0.974	1.069	1.079	1.003	1.095	1.049	4.6
1,1,1-Trichloroethane	0.968	0.880	0.960	0.988	0.917	0.949	0.944	4.2
Methylcyclohexane	0.657	0.601	0.640	0.637	0.590	0.597	0.620	4.5
Benzene	1.379	1.277	1.404	1.397	1.282	1.383	1.354	4.3
1,2-Dichloroethane	0.413	0.395	0.446	0.450	0.423	0.445	0.429	5.1
Trichloroethene	0.386	0.358	0.391	0.389	0.361	0.387	0.379	4
1,2-Dichloropropane	0.354	0.331	0.367	0.366	0.337	0.365	0.353	4.5
Bromodichloromethane	0.498	0.469	0.526	0.528	0.490	0.521	0.505	4.7
4-Methyl-2-Pentanone	0.315	0.288	0.337	0.348	0.316	0.364	0.328	8.3
Toluene	0.877	0.823	0.898	0.895	0.813	0.891	0.866	4.4
t-1,3-Dichloropropene	0.547	0.509	0.574	0.577	0.537	0.573	0.553	4.9
cis-1,3-Dichloropropene	0.603	0.563	0.626	0.620	0.576	0.620	0.601	4.4
1,1,2-Trichloroethane	0.297	0.273	0.310	0.312	0.289	0.311	0.299	5.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_Y Calibration Date(s): 07/13/2023 07/13/2023

Heated Purge: (Y/N) Y Calibration Time(s): 09:05 13:31

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY014620.D RRF010 = VY014621.D RRF050 = VY014623.D
RRF100 = VY014624.D RRF150 = VY014625.D RRF020 = VY014627.D

COMPOUND	RRF005	RRF010	RRF050	RRF100	RRF150	RRF020	$\overline{RRF}$	% RSD
2-Hexanone	0.224	0.205	0.248	0.254	0.230	0.272	0.239	10
Dibromochloromethane	0.361	0.335	0.383	0.382	0.355	0.382	0.366	5.3
1,2-Dibromoethane	0.293	0.273	0.310	0.310	0.287	0.315	0.298	5.5
Tetrachloroethene	0.428	0.395	0.412	0.397	0.363	0.419	0.402	5.8
Chlorobenzene	1.083	1.001	1.097	1.101	1.015	1.096	1.065	4.2
Ethyl Benzene	1.980	1.827	1.998	1.974	1.802	1.962	1.924	4.5
m/p-Xylenes	0.750	0.699	0.758	0.750	0.689	0.759	0.734	4.3
o-Xylene	0.740	0.672	0.740	0.735	0.674	0.730	0.715	4.6
Styrene	1.225	1.122	1.262	1.238	1.129	1.256	1.206	5.3
Bromoform	0.260	0.243	0.286	0.285	0.265	0.294	0.272	7.1
Isopropylbenzene	4.011	3.751	4.005	4.073	3.771	3.878	3.915	3.4
1,1,2,2-Tetrachloroethane	0.876	0.809	0.905	0.950	0.885	0.932	0.893	5.5
n-propylbenzene	4.775	4.512	4.901	4.936	4.514	4.668	4.718	3.9
1,3,5-Trimethylbenzene	3.319	3.110	3.399	3.386	3.132	3.272	3.270	3.8
tert-Butylbenzene	2.917	2.742	3.015	3.030	2.811	2.888	2.900	3.9
1,2,4-Trimethylbenzene	3.270	3.054	3.331	3.318	3.055	3.224	3.209	3.9
sec-Butylbenzene	4.306	4.068	4.419	4.415	4.056	4.264	4.255	3.8
p-Isopropyltoluene	3.483	3.307	3.635	3.605	3.287	3.526	3.474	4.3
1,3-Dichlorobenzene	1.750	1.633	1.810	1.796	1.655	1.792	1.739	4.4
1,4-Dichlorobenzene	1.767	1.624	1.812	1.804	1.675	1.777	1.743	4.4
n-Butylbenzene	3.388	3.182	3.552	3.547	3.241	3.368	3.380	4.5
1,2-Dichlorobenzene	1.566	1.503	1.665	1.653	1.538	1.637	1.594	4.2
1,2-Dibromo-3-Chloropropane	0.166	0.147	0.173	0.184	0.173	0.182	0.171	7.9
1,2,4-Trichlorobenzene	0.943	0.884	1.084	1.089	1.026	1.044	1.012	8.1
1,2,3-Trichlorobenzene	0.828	0.768	0.956	0.975	0.925	0.942	0.899	9.1
1,2-Dichloroethane-d4	0.586	0.534	0.559	0.568	0.559	0.612	0.570	4.7
Dibromofluoromethane	0.320	0.307	0.322	0.317	0.309	0.335	0.318	3.2
Toluene-d8	1.238	1.149	1.171	1.145	1.103	1.234	1.173	4.5
4-Bromofluorobenzene	0.486	0.440	0.444	0.438	0.423	0.468	0.450	5.1

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y071323S.M
Title : SW846 8260
Last Update : Fri Jul 14 02:09:50 2023
Response Via : Initial Calibration

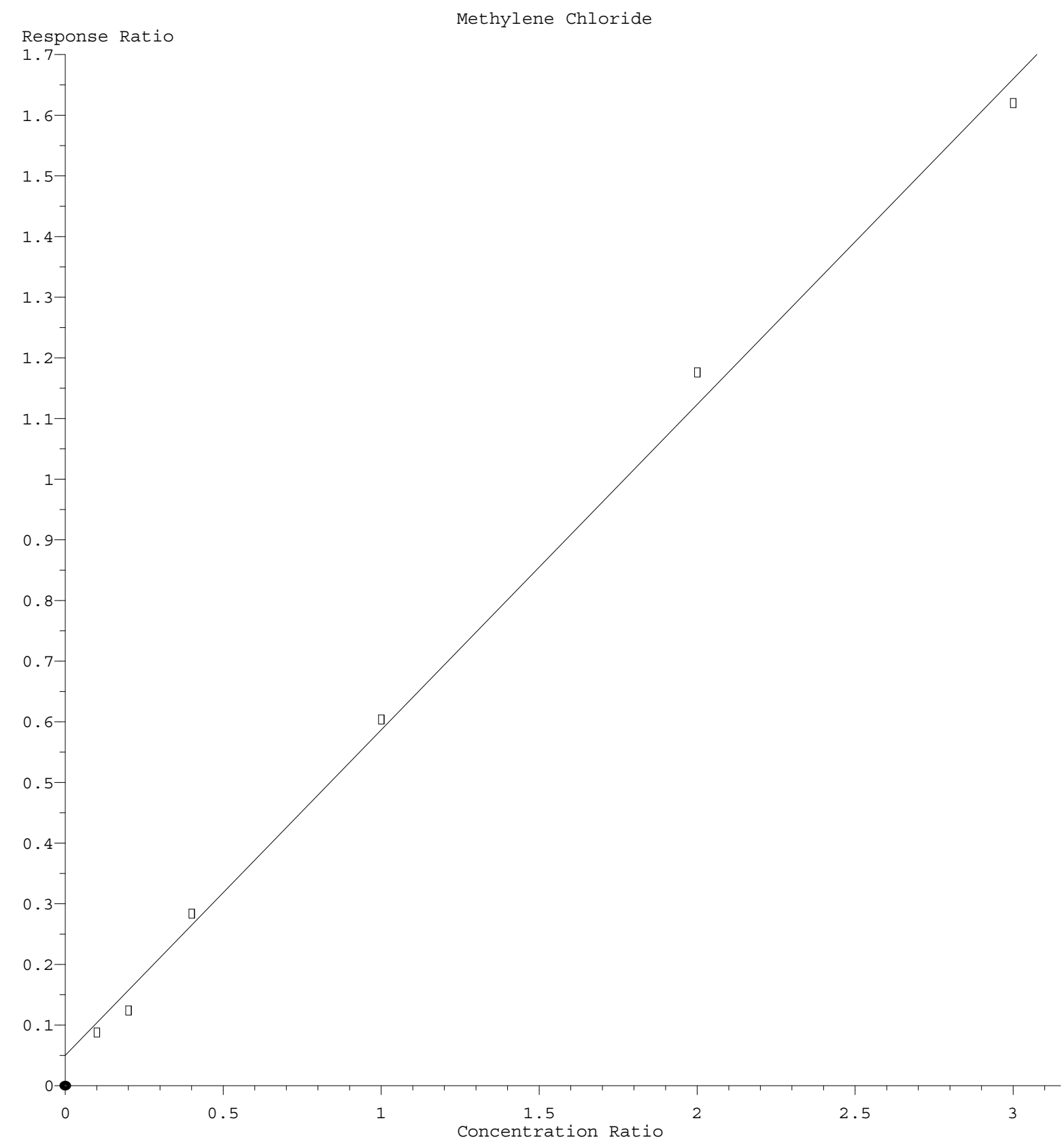
Calibration Files
5 =VY014620.D 10 =VY014621.D 20 =VY014627.D 50 =VY014623.D 100 =VY014624.D 150 =VY014625.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.466	0.449	0.367	0.389	0.402	0.370	0.407	10.17
3)	P	Chloromethane	0.508	0.467	0.453	0.448	0.453	0.418	0.458	6.41
4)	C	Vinyl Chloride	0.548	0.519	0.497	0.516	0.517	0.474	0.512	4.84#
5)	T	Bromomethane	0.361	0.339	0.348	0.335	0.308		0.338	5.81
6)	T	Chloroethane	0.338	0.319	0.321	0.325	0.326	0.289	0.320	5.21
7)	T	Trichlorofluor...	0.877	0.849	0.837	0.877	0.898	0.819	0.860	3.44
8)	T	Diethyl Ether	0.319	0.302	0.337	0.324	0.329	0.307	0.320	4.12
9)	T	1,1,2-Trichlor...	0.540	0.505	0.511	0.542	0.552	0.510	0.527	3.82
10)	T	Methyl Iodide	0.357	0.368	0.525	0.542	0.600	0.567	0.493	21.19
11)	T	Tert butyl alc...	0.159	0.118	0.162	0.111	0.107	0.096	0.125	22.33
12)	CM	1,1-Dichloroet...	0.494	0.480	0.490	0.505	0.514	0.472	0.492	3.16#
13)	T	Acrolein	0.054	0.050	0.063	0.054	0.060	0.075	0.060	14.73
14)	T	Allyl chloride	0.913	0.822	0.884	0.886	0.903	0.836	0.874	4.19
15)	T	Acrylonitrile	0.168	0.154	0.197	0.179	0.188	0.172	0.176	8.63
16)	T	Acetone	0.177	0.144	0.217	0.194	0.187	0.164	0.181	13.97
17)	T	Carbon Disulfide	1.547	1.429	1.359	1.397	1.419	1.307	1.410	5.72
18)	T	Methyl Acetate	0.652	0.613	0.760	0.704	0.739	0.690	0.693	7.86
19)	T	Methyl tert-bu...	1.561	1.466	1.702	1.635	1.675	1.557	1.599	5.49
20)	T	Methylene Chlo...	0.878	0.620	0.709	0.604	0.588	0.540	0.656	18.55
21)	T	trans-1,2-Dich...	0.580	0.546	0.560	0.566	0.573	0.527	0.559	3.46
22)	T	Diisopropyl ether	1.752	1.652	1.850	1.829	1.851	1.730	1.777	4.50
23)	T	Vinyl Acetate	1.038	0.949	1.136	1.096	1.122	1.041	1.064	6.49
24)	P	1,1-Dichloroet...	1.018	0.956	1.050	1.044	1.054	0.980	1.017	4.00
25)	T	2-Butanone	0.261	0.223	0.308	0.270	0.275	0.248	0.264	10.67
26)	T	2,2-Dichloropr...	1.028	0.922	1.005	0.986	0.979	0.896	0.969	5.17
27)	T	cis-1,2-Dichlo...	0.668	0.614	0.665	0.668	0.670	0.618	0.650	4.08
28)	T	Bromochloromet...	0.462	0.478	0.424	0.419	0.430	0.415	0.438	5.90
29)	T	Tetrahydrofuran	0.158	0.142	0.182	0.162	0.173	0.160	0.163	8.45
30)	C	Chloroform	1.073	0.974	1.095	1.069	1.079	1.003	1.049	4.61#
31)	T	Cyclohexane	1.137	0.959	0.903	0.915	0.915	0.847	0.946	10.59
32)	T	1,1,1-Trichlor...	0.968	0.880	0.949	0.960	0.988	0.917	0.944	4.15
33)	S	1,2-Dichloroet...	0.586	0.534	0.612	0.559	0.568	0.559	0.570	4.70
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.320	0.307	0.335	0.322	0.317	0.309	0.318	3.22
36)	T	1,1-Dichloropr...	0.483	0.455	0.469	0.494	0.497	0.458	0.476	3.79
37)	T	Ethyl Acetate	0.325	0.286	0.360	0.323	0.348	0.323	0.328	7.71
38)	T	Carbon Tetrach...	0.506	0.473	0.494	0.524	0.530	0.492	0.503	4.24
39)	T	Methylcyclohexane	0.657	0.601	0.597	0.640	0.637	0.590	0.620	4.50
40)	TM	Benzene	1.379	1.277	1.383	1.404	1.397	1.282	1.354	4.29
41)	T	Methacrylonitrile	0.186	0.136	0.197	0.168	0.153	0.173	0.169	13.22
42)	TM	1,2-Dichloroet...	0.413	0.395	0.445	0.446	0.450	0.423	0.429	5.14
43)	T	Isopropyl Acetate	0.596	0.560	0.672	0.641	0.660	0.616	0.624	6.73
44)	TM	Trichloroethene	0.386	0.358	0.387	0.391	0.389	0.361	0.379	3.95
45)	C	1,2-Dichloropr...	0.354	0.331	0.365	0.367	0.366	0.337	0.353	4.45#
46)	T	Dibromomethane	0.216	0.198	0.224	0.222	0.222	0.206	0.214	4.93
47)	T	Bromodichlorom...	0.498	0.469	0.521	0.526	0.528	0.490	0.505	4.70
48)	T	Methyl methacr...	0.265	0.254	0.297	0.289	0.301	0.279	0.281	6.56
49)	T	1,4-Dioxane	0.003	0.003	0.004	0.004	0.004	0.003	0.003	12.91
50)	S	Toluene-d8	1.238	1.149	1.234	1.171	1.145	1.103	1.173	4.53
51)	T	4-Methyl-2-Pen...	0.315	0.288	0.364	0.337	0.348	0.316	0.328	8.32
52)	CM	Toluene	0.877	0.823	0.891	0.898	0.895	0.813	0.866	4.40#
53)	T	t-1,3-Dichloro...	0.547	0.509	0.573	0.574	0.577	0.537	0.553	4.87
54)	T	cis-1,3-Dichlo...	0.603	0.563	0.620	0.626	0.620	0.576	0.601	4.35
55)	T	1,1,2-Trichlor...	0.297	0.273	0.311	0.310	0.312	0.289	0.299	5.20
56)	T	Ethyl methacry...	0.432	0.402	0.489	0.479	0.489	0.446	0.456	7.78

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y071323S.M

57)	T	1,3-Dichloropr...	0.513	0.472	0.541	0.538	0.534	0.494	0.515	5.39
58)	T	2-Chloroethyl ...	0.223	0.209	0.210	0.215	0.217	0.202	0.213	3.44
59)	T	2-Hexanone	0.224	0.205	0.272	0.248	0.254	0.230	0.239	9.95
60)	T	Dibromochlorom...	0.361	0.335	0.382	0.383	0.382	0.355	0.366	5.33
61)	T	1,2-Dibromoethane	0.293	0.273	0.315	0.310	0.310	0.287	0.298	5.52
62)	S	4-Bromofluorob...	0.486	0.440	0.468	0.444	0.438	0.423	0.450	5.07
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.428	0.395	0.419	0.412	0.397	0.363	0.402	5.78
65)	PM	Chlorobenzene	1.083	1.001	1.096	1.097	1.101	1.015	1.065	4.21
66)	T	1,1,1,2-Tetrac...	0.402	0.372	0.421	0.419	0.414	0.382	0.402	5.05
67)	C	Ethyl Benzene	1.980	1.827	1.962	1.998	1.974	1.802	1.924	4.47#
68)	T	m/p-Xylenes	0.750	0.699	0.759	0.758	0.750	0.689	0.734	4.26
69)	T	o-Xylene	0.740	0.672	0.730	0.740	0.735	0.674	0.715	4.59
70)	T	Styrene	1.225	1.122	1.256	1.262	1.238	1.129	1.206	5.25
71)	P	Bromoform	0.260	0.243	0.294	0.286	0.285	0.265	0.272	7.10
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.011	3.751	3.878	4.005	4.073	3.771	3.915	3.45
74)	T	N-amyl acetate	1.196	1.172	1.366	1.361	1.437	1.335	1.311	7.94
75)	P	1,1,2,2-Tetrac...	0.876	0.809	0.932	0.905	0.950	0.885	0.893	5.55
76)	T	1,2,3-Trichlor...	0.635	0.589	0.638	0.641	0.666	0.620	0.631	4.07
77)	T	Bromobenzene	0.880	0.832	0.912	0.930	0.936	0.872	0.894	4.44
78)	T	n-propylbenzene	4.775	4.512	4.668	4.901	4.936	4.514	4.718	3.92
79)	T	2-Chlorotoluene	2.732	2.574	2.705	2.815	2.843	2.636	2.717	3.79
80)	T	1,3,5-Trimethy...	3.319	3.110	3.272	3.399	3.386	3.132	3.270	3.80
81)	T	trans-1,4-Dich...	0.315	0.278	0.337	0.340	0.356	0.332	0.326	8.34
82)	T	4-Chlorotoluene	2.795	2.670	2.812	2.898	2.914	2.701	2.799	3.54
83)	T	tert-Butylbenzene	2.917	2.742	2.888	3.015	3.030	2.811	2.900	3.89
84)	T	1,2,4-Trimethy...	3.270	3.054	3.224	3.331	3.318	3.055	3.209	3.91
85)	T	sec-Butylbenzene	4.306	4.068	4.264	4.419	4.415	4.056	4.255	3.79
86)	T	p-Isopropyltol...	3.483	3.307	3.526	3.635	3.605	3.287	3.474	4.25
87)	T	1,3-Dichlorobe...	1.750	1.633	1.792	1.810	1.796	1.655	1.739	4.41
88)	T	1,4-Dichlorobe...	1.767	1.624	1.777	1.812	1.804	1.675	1.743	4.37
89)	T	n-Butylbenzene	3.388	3.182	3.368	3.552	3.547	3.241	3.380	4.52
90)	T	Hexachloroethane	0.715	0.661	0.717	0.743	0.748	0.696	0.714	4.51
91)	T	1,2-Dichlorobe...	1.566	1.503	1.637	1.665	1.653	1.538	1.594	4.22
92)	T	1,2-Dibromo-3-...	0.166	0.147	0.182	0.173	0.184	0.173	0.171	7.90
93)	T	1,2,4-Trichlor...	0.943	0.884	1.044	1.084	1.089	1.026	1.012	8.09
94)	T	Hexachlorobuta...	0.543	0.506	0.559	0.594	0.588	0.545	0.556	5.83
95)	T	Naphthalene	2.113	1.957	2.505	2.504	2.603	2.459	2.357	10.97
96)	T	1,2,3-Trichlor...	0.828	0.768	0.942	0.956	0.975	0.925	0.899	9.14

(#) = Out of Range



Response = 5.370e-001 * Amt + 4.954e-002
Coef of Det (r^2) = 0.996722 Curve Fit: Linear
Method: NYC_CLP_Groups\\nycsrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Calibration Table Last Updated: Fri Jul 14 02:09:50 2023

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014620.D
Acq On : 13 Jul 2023 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 01:59:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.783	168	352580	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.685	114	581157	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.490	117	506463	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	244875	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.136	65	20648	5.139	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.280%#			
35) Dibromofluoromethane	7.710	113	18602	5.028	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.060%#			
50) Toluene-d8	10.179	98	71932	5.274	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.540%#			
62) 4-Bromofluorobenzene	12.477	95	28239	5.400	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.800%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.906	85	16437	5.722	ug/l		92
3) Chloromethane	2.107	50	17907	5.546	ug/l		99
4) Vinyl Chloride	2.247	62	19318	5.353	ug/l		94
5) Bromomethane	2.644	94	12736	5.340	ug/l		100
6) Chloroethane	2.790	64	11926	5.291	ug/l		93
7) Trichlorofluoromethane	3.119	101	30924	5.102	ug/l		98
8) Diethyl Ether	3.528	74	11237	4.983	ug/l		87
9) 1,1,2-Trichlorotrifluo...	3.887	101	19030	5.123	ug/l		96
10) Methyl Iodide	4.082	142	12571	5.410	ug/l		93
11) Tert butyl alcohol	4.942	59	28023	21.628	ug/l		99
12) 1,1-Dichloroethene	3.863	96	17414	5.016	ug/l		93
13) Acrolein	3.723	56	9515	22.658	ug/l		97
14) Allyl chloride	4.466	41	32204	5.224	ug/l		91
15) Acrylonitrile	5.155	53	29667	23.857	ug/l		97
16) Acetone	3.948	43	31245	24.541	ug/l		99
17) Carbon Disulfide	4.186	76	54541	5.487	ug/l		97
18) Methyl Acetate	4.472	43	22987	4.705	ug/l		92
19) Methyl tert-butyl Ether	5.216	73	55038	4.880	ug/l		95
20) Methylene Chloride	4.704	84	30952	3.561	ug/l		88
21) trans-1,2-Dichloroethene	5.216	96	20451	5.190	ug/l		98
22) Diisopropyl ether	6.112	45	61765	4.928	ug/l		92
23) Vinyl Acetate	6.051	43	182990	24.397	ug/l	#	94
24) 1,1-Dichloroethane	6.009	63	35907	5.007	ug/l	#	98
25) 2-Butanone	6.984	43	45964	24.677	ug/l		96
26) 2,2-Dichloropropane	6.978	77	36245	5.303	ug/l		99
27) cis-1,2-Dichloroethene	6.978	96	23550	5.135	ug/l		100
28) Bromochloromethane	7.326	49	16293	5.275	ug/l		97
29) Tetrahydrofuran	7.344	42	27890	24.317	ug/l		94
30) Chloroform	7.496	83	37834	5.116	ug/l		95
31) Cyclohexane	7.777	56	40079	6.009	ug/l	#	78
32) 1,1,1-Trichloroethane	7.697	97	34138	5.129	ug/l		97
36) 1,1-Dichloropropene	7.917	75	28049	5.070	ug/l		96
37) Ethyl Acetate	7.063	43	18888	4.959	ug/l	#	96
38) Carbon Tetrachloride	7.899	117	29383	5.024	ug/l		97
39) Methylcyclohexane	9.179	83	38179	5.297	ug/l		97
40) Benzene	8.155	78	80151	5.094	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014620.D
Acq On : 13 Jul 2023 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 01:59:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.313	41	10790m	5.357 ug/l		
42) 1,2-Dichloroethane	8.234	62	24005	4.818 ug/l		92
43) Isopropyl Acetate	8.271	43	34659	4.777 ug/l		95
44) Trichloroethene	8.935	130	22443	5.098 ug/l		97
45) 1,2-Dichloropropane	9.216	63	20593	5.012 ug/l		98
46) Dibromomethane	9.301	93	12525	5.025 ug/l		92
47) Bromodichloromethane	9.496	83	28925	4.924 ug/l		98
48) Methyl methacrylate	9.289	41	15391	4.714 ug/l		90
49) 1,4-Dioxane	9.295	88	3801	93.522 ug/l	#	23
51) 4-Methyl-2-Pentanone	10.069	43	91473	24.010 ug/l		93
52) Toluene	10.240	92	50956	5.061 ug/l		94
53) t-1,3-Dichloropropene	10.459	75	31770	4.944 ug/l		98
54) cis-1,3-Dichloropropene	9.929	75	35040	5.014 ug/l		96
55) 1,1,2-Trichloroethane	10.642	97	17271	4.974 ug/l		97
56) Ethyl methacrylate	10.508	69	25112	4.737 ug/l		92
57) 1,3-Dichloropropane	10.788	76	29810	4.978 ug/l		97
58) 2-Chloroethyl Vinyl ether	9.776	63	64678	26.185 ug/l		93
59) 2-Hexanone	10.831	43	65095	23.430 ug/l		90
60) Dibromochloromethane	10.983	129	20972	4.927 ug/l		99
61) 1,2-Dibromoethane	11.087	107	17023	4.915 ug/l		99
64) Tetrachloroethene	10.715	164	21701	5.328 ug/l		95
65) Chlorobenzene	11.514	112	54836	5.081 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	20358	5.003 ug/l		96
67) Ethyl Benzene	11.593	91	100287	5.147 ug/l		97
68) m/p-Xylenes	11.697	106	75998	10.217 ug/l		96
69) o-Xylene	12.026	106	37469	5.172 ug/l		96
70) Styrene	12.044	104	62041	5.081 ug/l		97
71) Bromoform	12.203	173	13181	4.779 ug/l	#	100
73) Isopropylbenzene	12.331	105	98210	5.122 ug/l		100
74) N-amyl acetate	12.142	43	29298	4.562 ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.581	83	21443	4.904 ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	15542m	4.960 ug/l		
77) Bromobenzene	12.605	156	21554	4.925 ug/l		91
78) n-propylbenzene	12.672	91	116920	5.060 ug/l		99
79) 2-Chlorotoluene	12.751	91	66893	5.027 ug/l		98
80) 1,3,5-Trimethylbenzene	12.812	105	81264	5.075 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.380	75	7707	4.825 ug/l		89
82) 4-Chlorotoluene	12.849	91	68453	4.994 ug/l		99
83) tert-Butylbenzene	13.075	119	71423	5.028 ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	80086	5.096 ug/l		100
85) sec-Butylbenzene	13.251	105	105449	5.061 ug/l		99
86) p-Isopropyltoluene	13.367	119	85279	5.013 ug/l		99
87) 1,3-Dichlorobenzene	13.367	146	42841	5.029 ug/l		97
88) 1,4-Dichlorobenzene	13.446	146	43258	5.068 ug/l		93
89) n-Butylbenzene	13.696	91	82970	5.013 ug/l		96
90) Hexachloroethane	13.959	117	17520	5.014 ug/l		86
91) 1,2-Dichlorobenzene	13.739	146	38358	4.915 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.355	75	4072	4.870 ug/l		98
93) 1,2,4-Trichlorobenzene	15.007	180	23087	4.660 ug/l		97
94) Hexachlorobutadiene	15.111	225	13291	4.882 ug/l		98
95) Naphthalene	15.233	128	51742	4.483 ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	20285	4.607 ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014620.D
Acq On : 13 Jul 2023 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 01:59:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

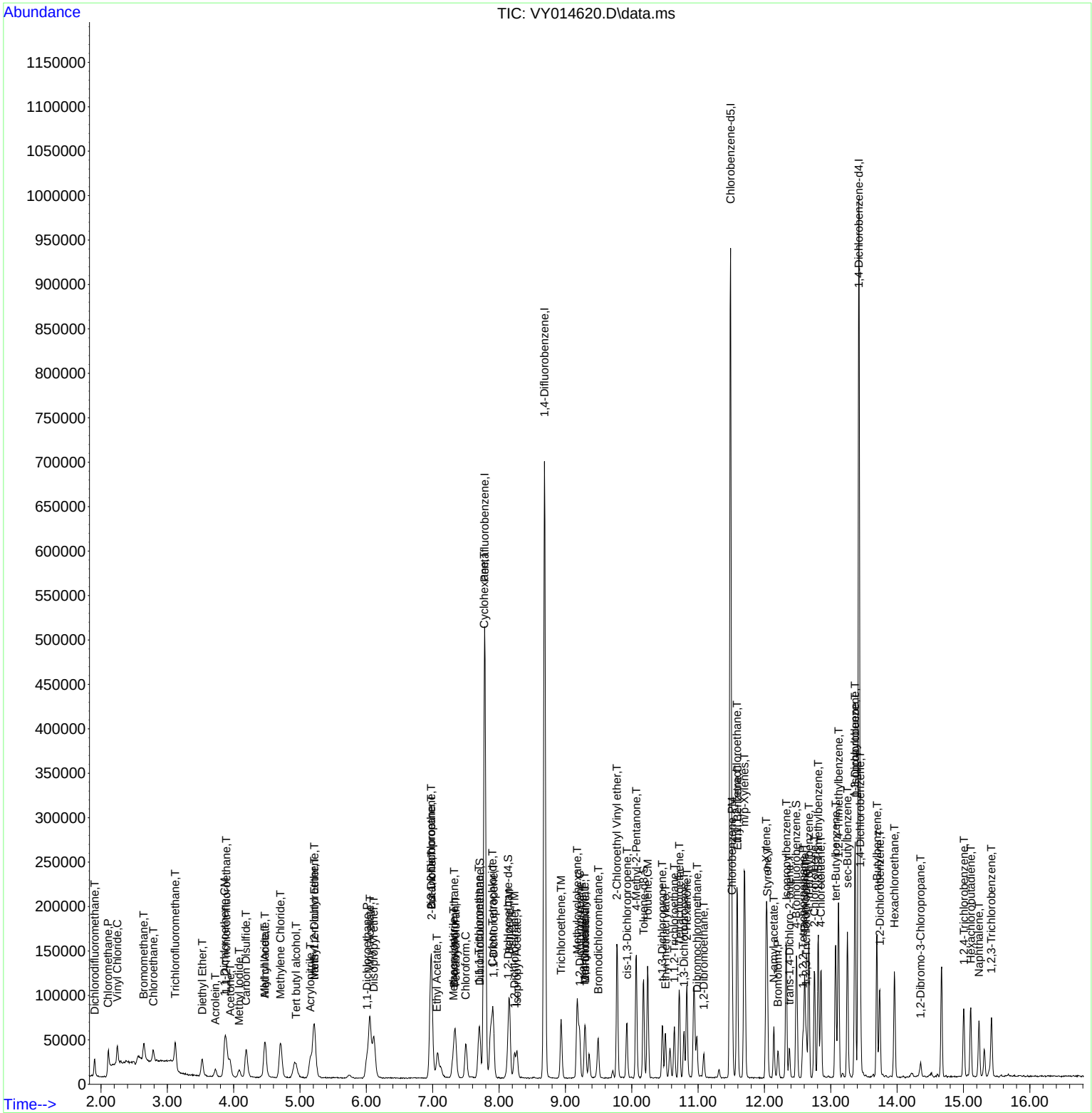
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Data File : VY014620.D
Acq On : 13 Jul 2023 09:05
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

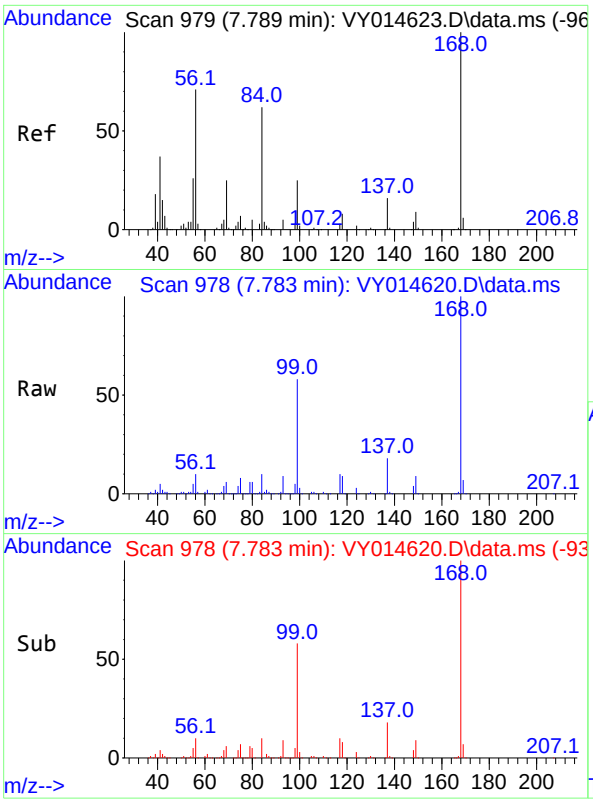
Quant Time: Jul 14 01:59:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

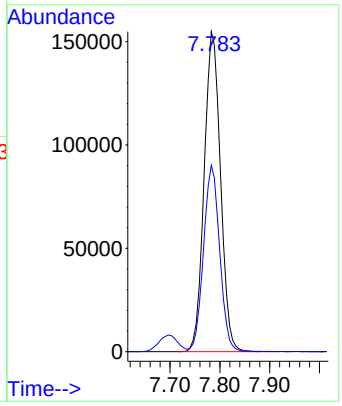




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:168 Resp: 35258

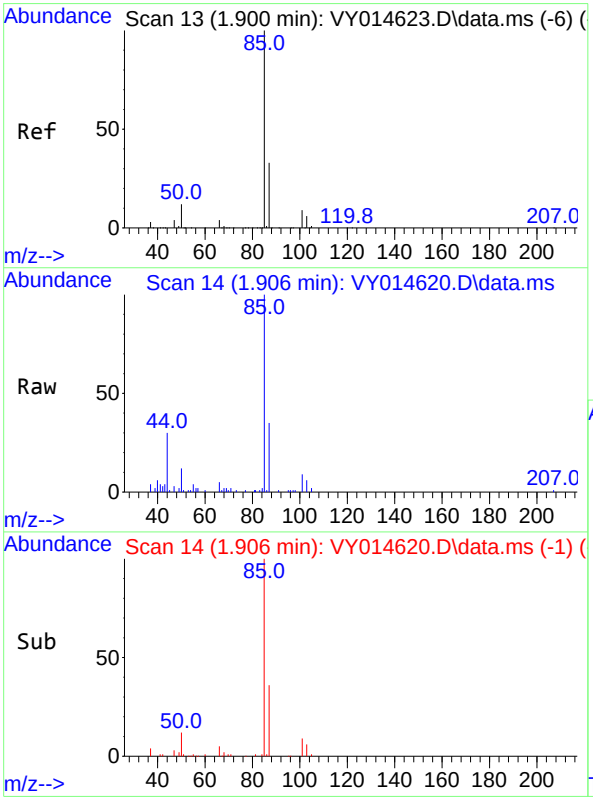
Ion	Ratio	Lower	Upper
168	100		
99	58.2	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

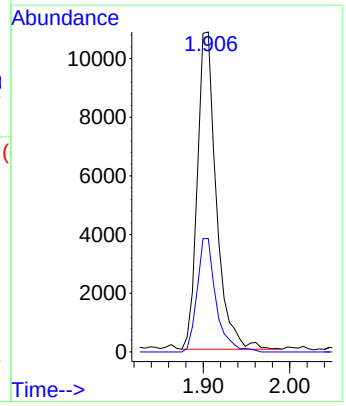
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

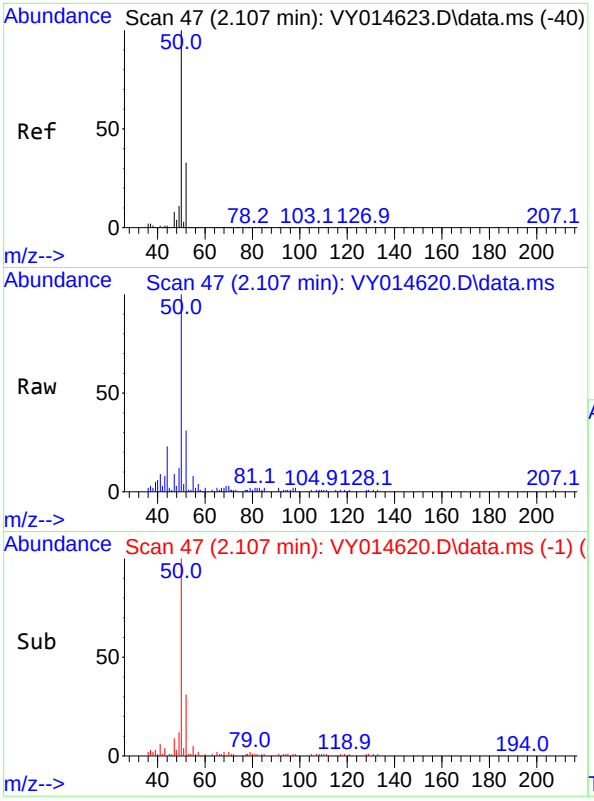


#2
Dichlorodifluoromethane
Concen: 5.722 ug/l
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 85 Resp: 16437

Ion	Ratio	Lower	Upper
85	100		
87	35.7	15.6	46.8

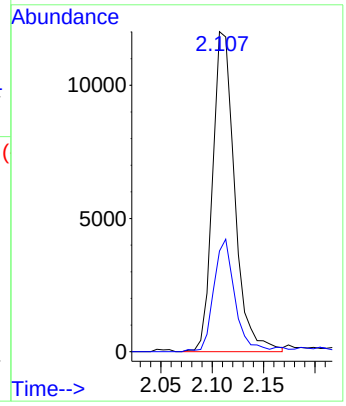




#3
Chloromethane
Concen: 5.546 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 50 Resp: 1790

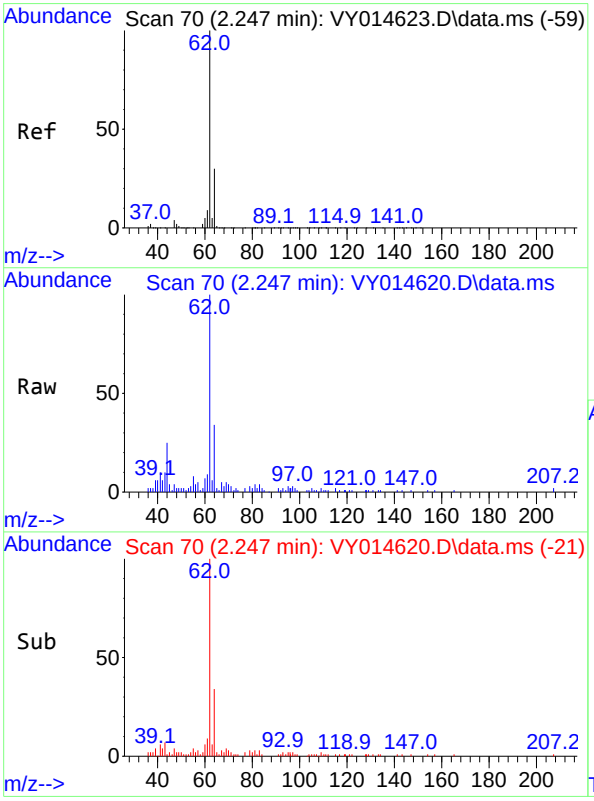
Ion	Ratio	Lower	Upper
50	100		
52	31.4	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

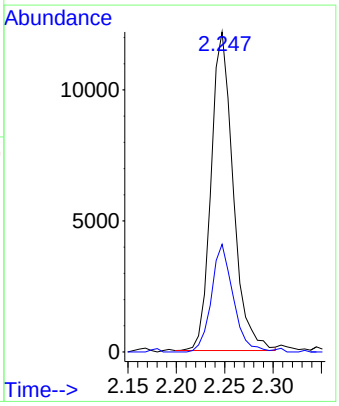
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

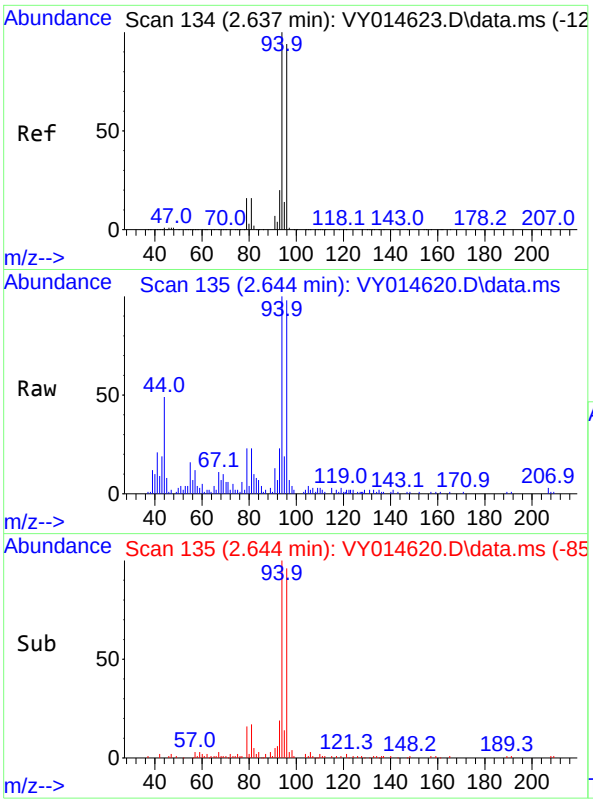


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 62 Resp: 19318

Ion	Ratio	Lower	Upper
62	100		
64	33.8	24.3	36.5

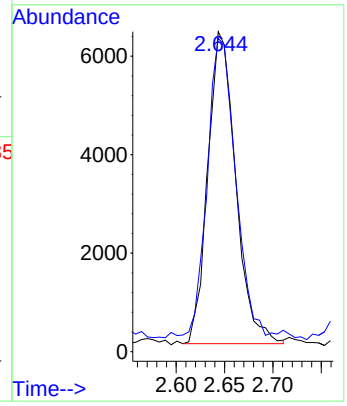




#5
Bromomethane
Concen: 5.340 ug/l
RT: 2.644 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 94 Resp: 1273

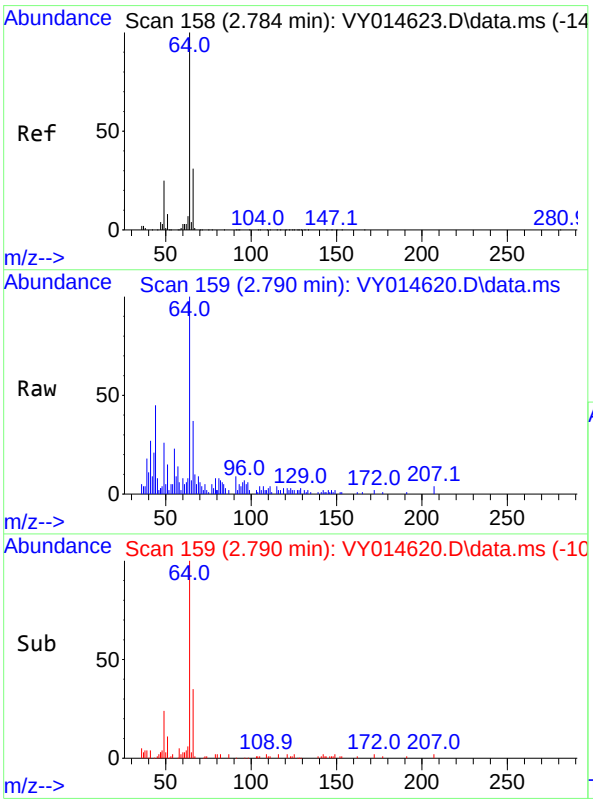
Ion	Ratio	Lower	Upper
94	100		
96	95.0	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

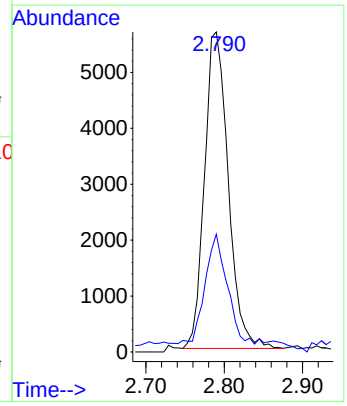
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

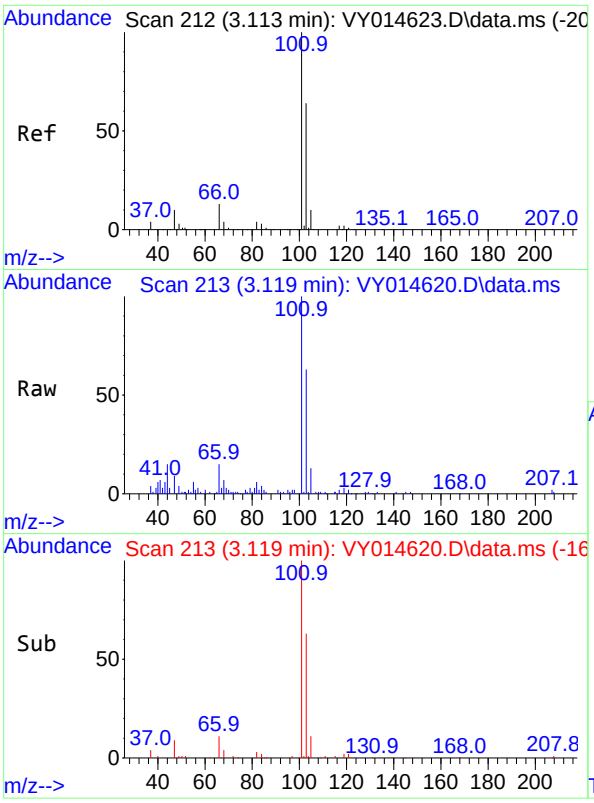


#6
Chloroethane
Concen: 5.291 ug/l
RT: 2.790 min Scan# 159
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 64 Resp: 11926

Ion	Ratio	Lower	Upper
64	100		
66	34.4	24.4	36.6

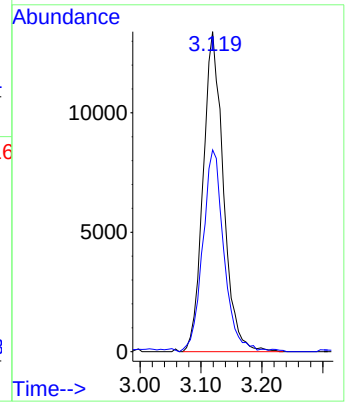




#7
Trichlorofluoromethane
Concen: 5.102 ug/l
RT: 3.119 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:101 Resp: 3092

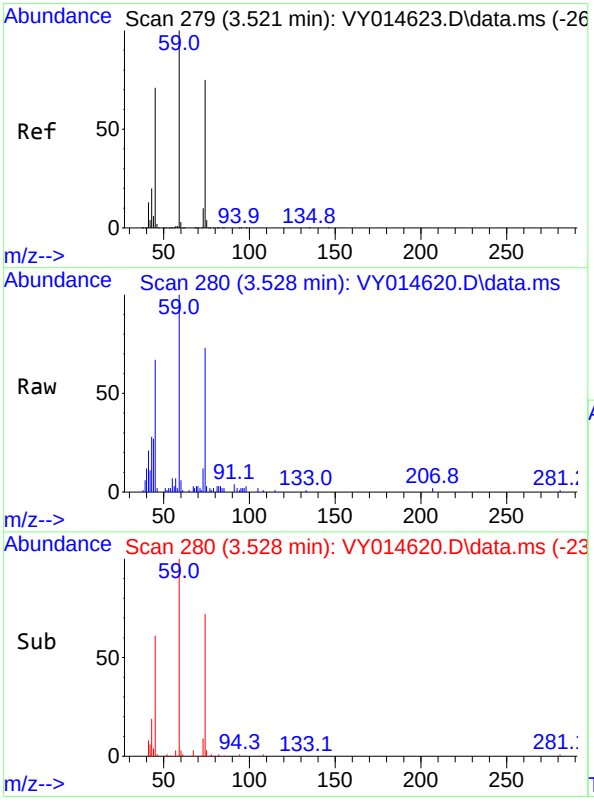
Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

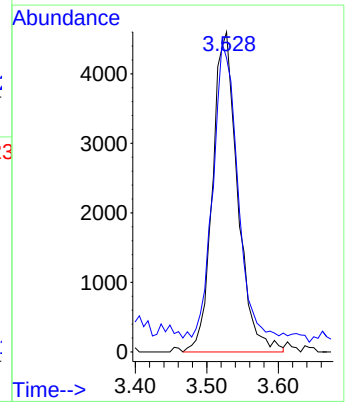
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

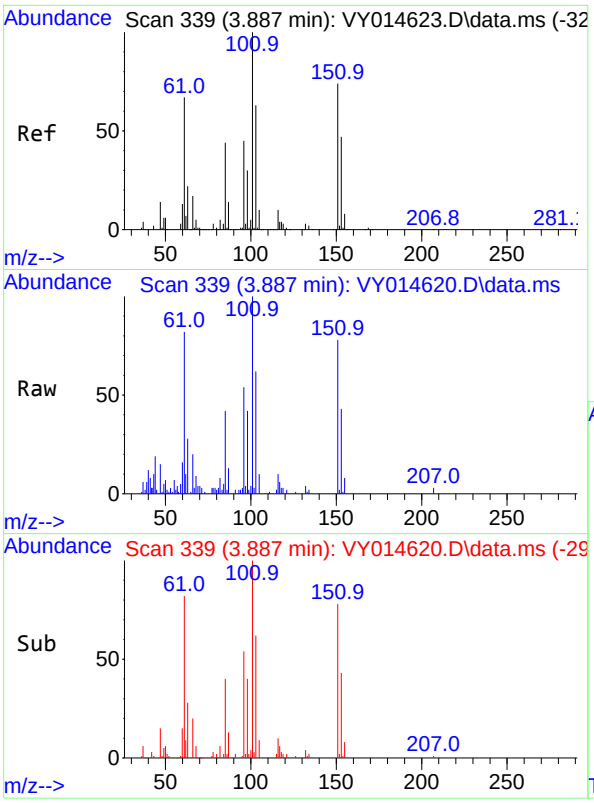


#8
Diethyl Ether
Concen: 4.983 ug/l
RT: 3.528 min Scan# 280
Delta R.T. 0.007 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 74 Resp: 11237

Ion	Ratio	Lower	Upper
74	100		
45	90.1	51.5	154.5

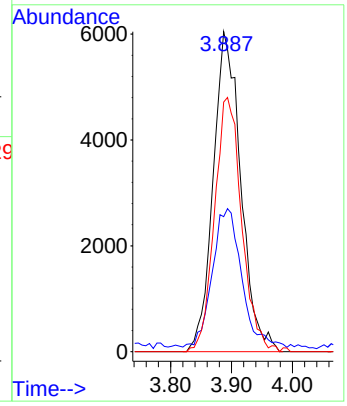




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.123 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:101 Resp: 1903

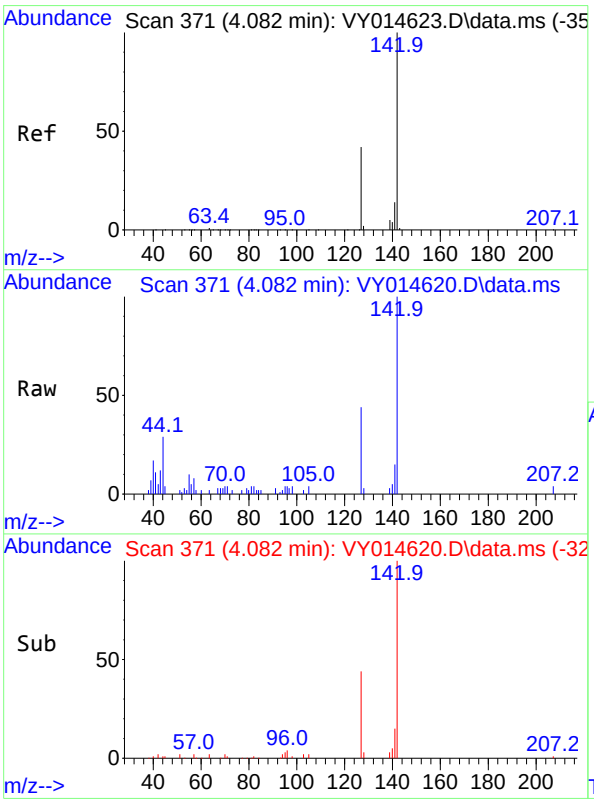
Ion	Ratio	Lower	Upper
101	100		
85	46.3	36.6	55.0
151	78.0	67.0	100.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

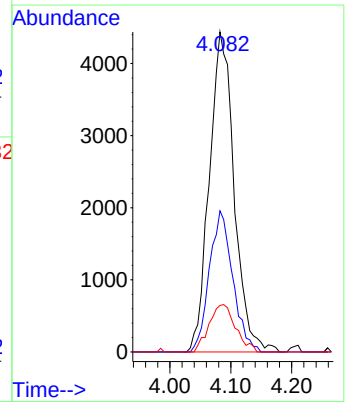
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

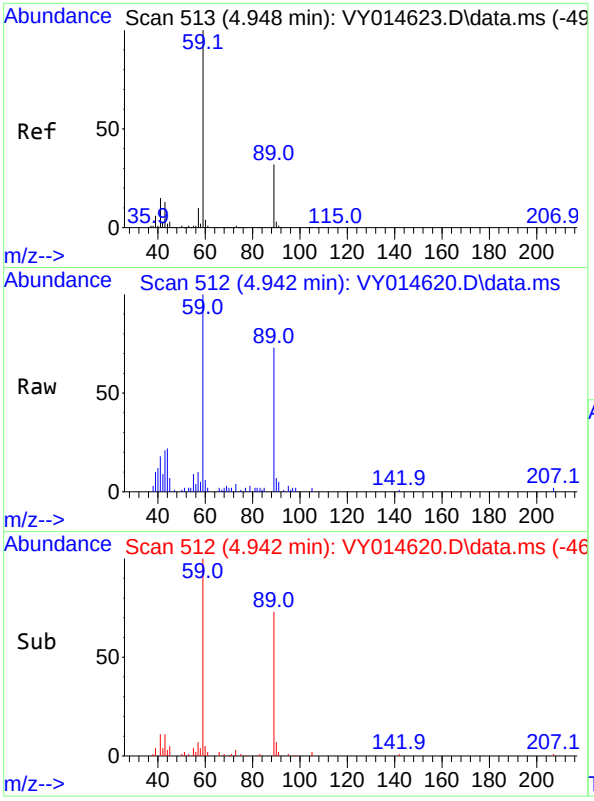


#10
Methyl Iodide
Concen: 5.410 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:142 Resp: 12571

Ion	Ratio	Lower	Upper
142	100		
127	41.5	37.6	56.4
141	15.8	11.8	17.8

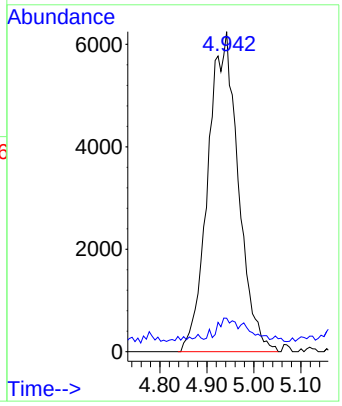




#11
Tert butyl alcohol
Concen: 21.628 ug/l
RT: 4.942 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 59 Resp: 2802

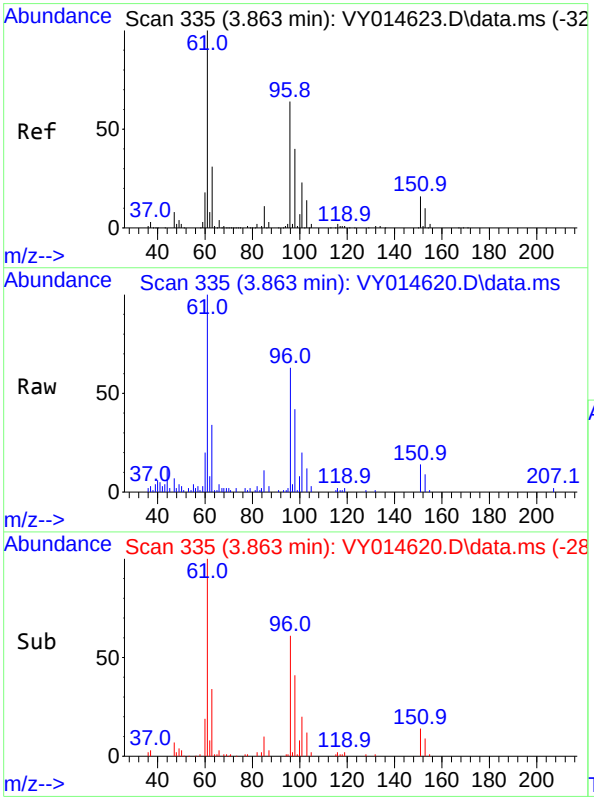
Ion	Ratio	Lower	Upper
59	100		
57	3.9	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

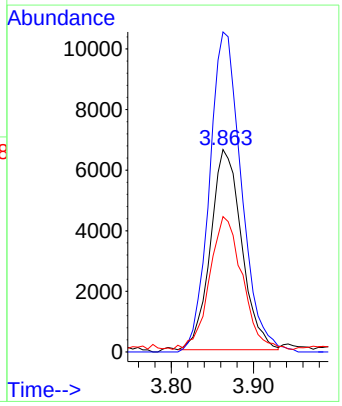
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

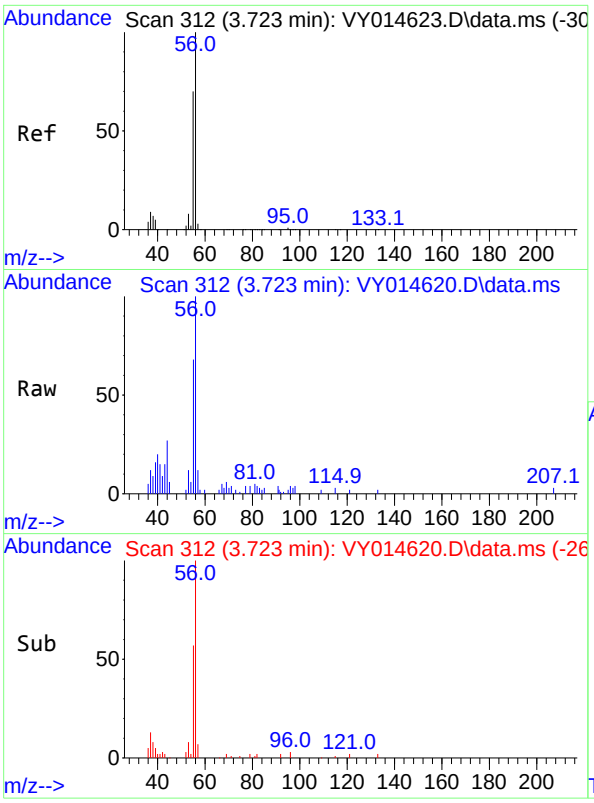


#12
1,1-Dichloroethene
Concen: 5.016 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 96 Resp: 17414

Ion	Ratio	Lower	Upper
96	100		
61	159.8	136.4	204.6
98	65.0	49.4	74.2

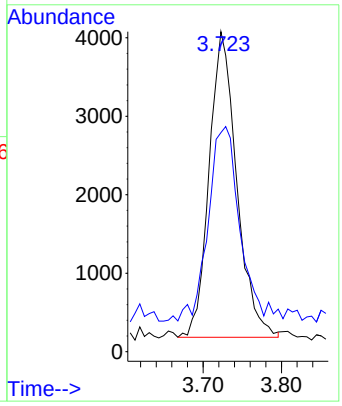




#13
Acrolein
Concen: 22.658 ug/l
RT: 3.723 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 56 Resp: 951

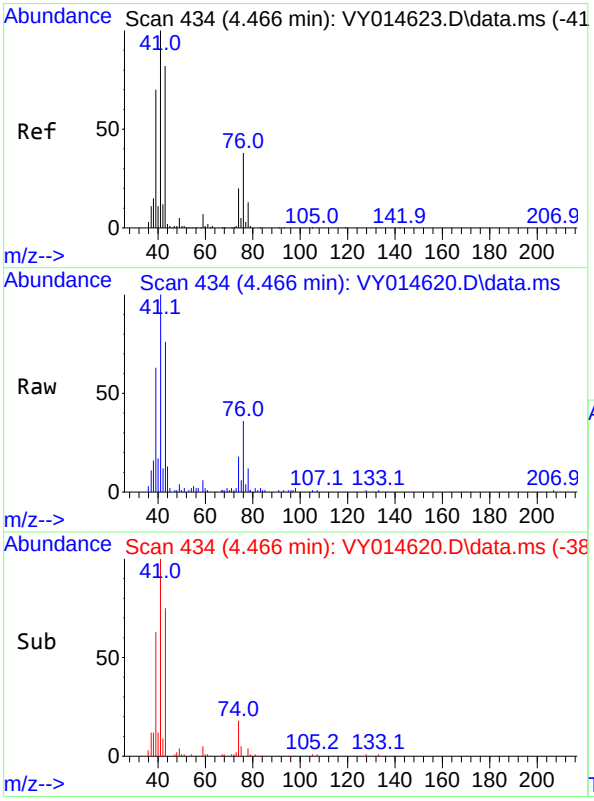
Ion	Ratio	Lower	Upper
56	100		
55	73.5	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

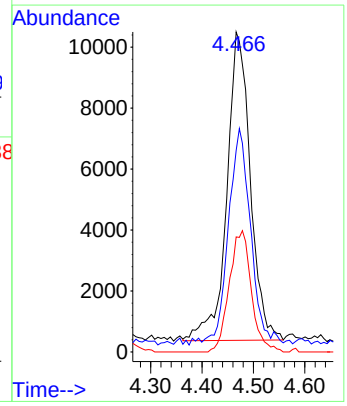
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

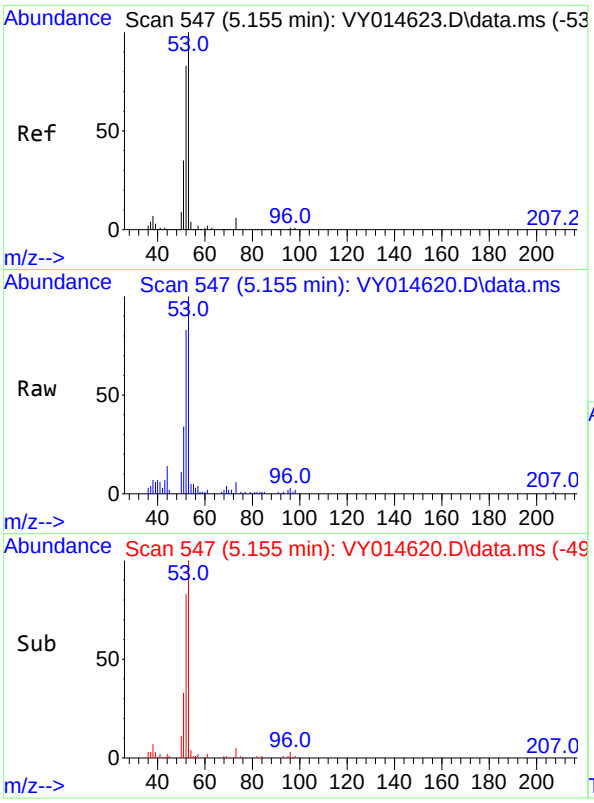


#14
Allyl chloride
Concen: 5.224 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 41 Resp: 32204

Ion	Ratio	Lower	Upper
41	100		
39	63.8	58.0	87.0
76	36.9	27.4	41.2

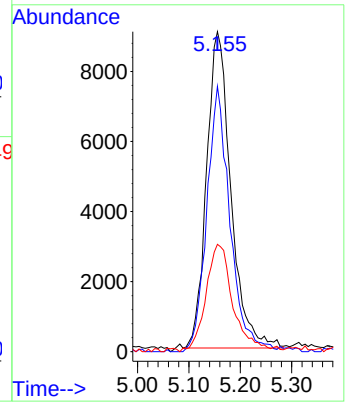




#15
Acrylonitrile
Concen: 23.857 ug/l
RT: 5.155 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 53 Resp: 2966

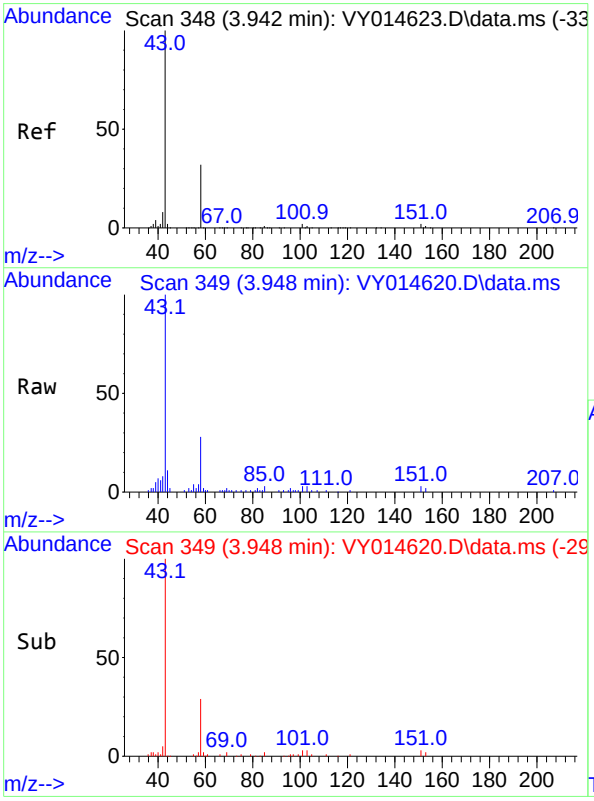
Ion	Ratio	Lower	Upper
53	100		
52	80.0	66.9	100.3
51	37.6	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

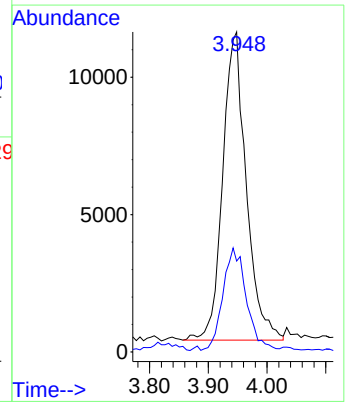
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

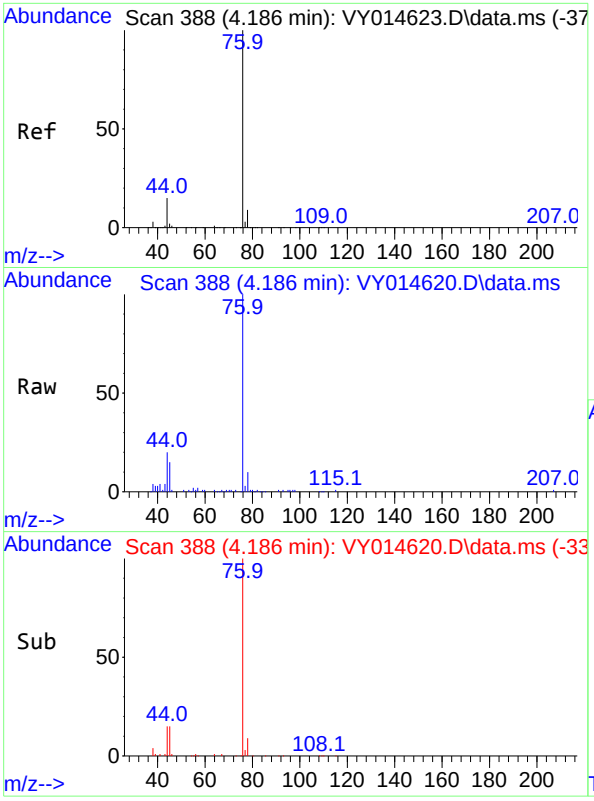


#16
Acetone
Concen: 24.541 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 31245

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.7	34.1





#17
Carbon Disulfide
Concen: 5.487 ug/l
RT: 4.186 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

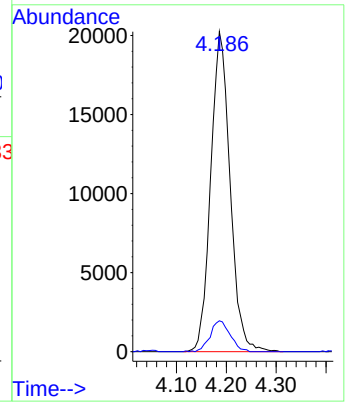
Tgt Ion: 76 Resp: 5454

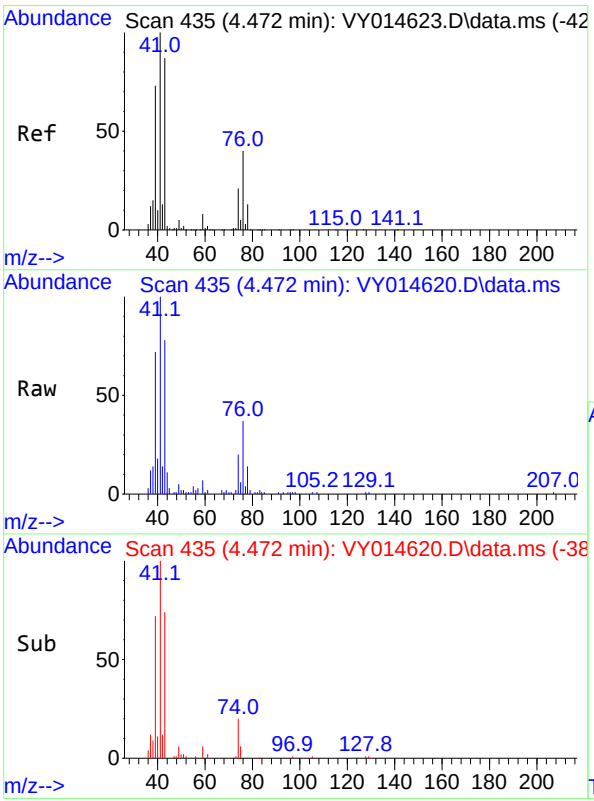
Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.0	10.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

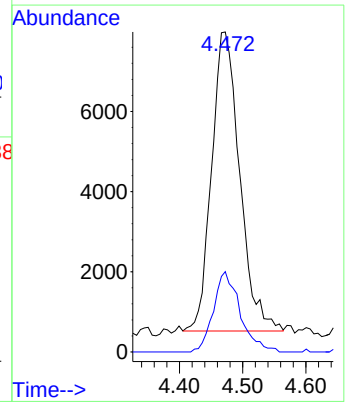


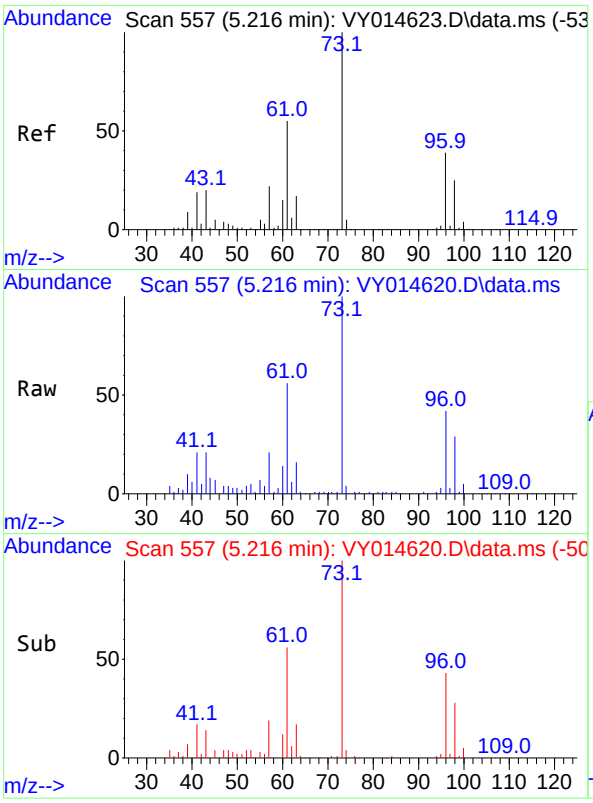


#18
Methyl Acetate
Concen: 4.705 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 22987

Ion	Ratio	Lower	Upper
43	100		
74	25.5	17.4	26.0

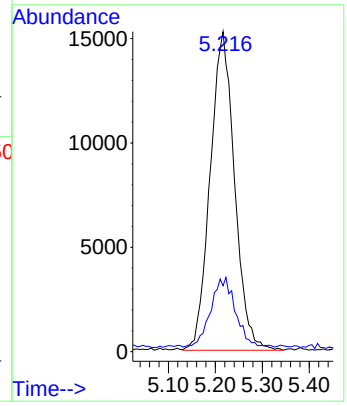




#19
Methyl tert-butyl Ether
Concen: 4.880 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 73 Resp: 5503

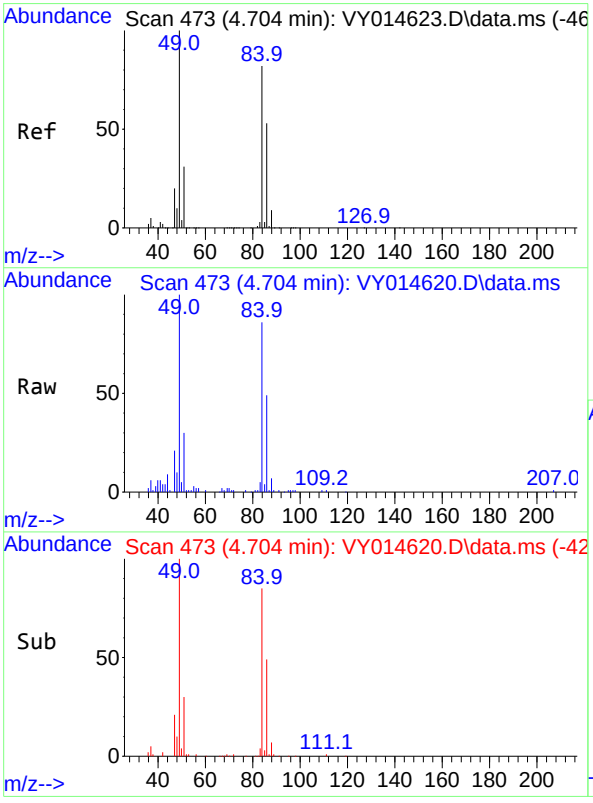
Ion	Ratio	Lower	Upper
73	100		
57	19.2	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

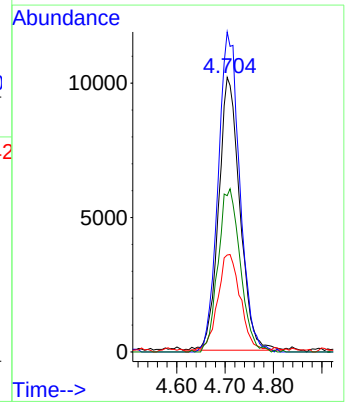
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

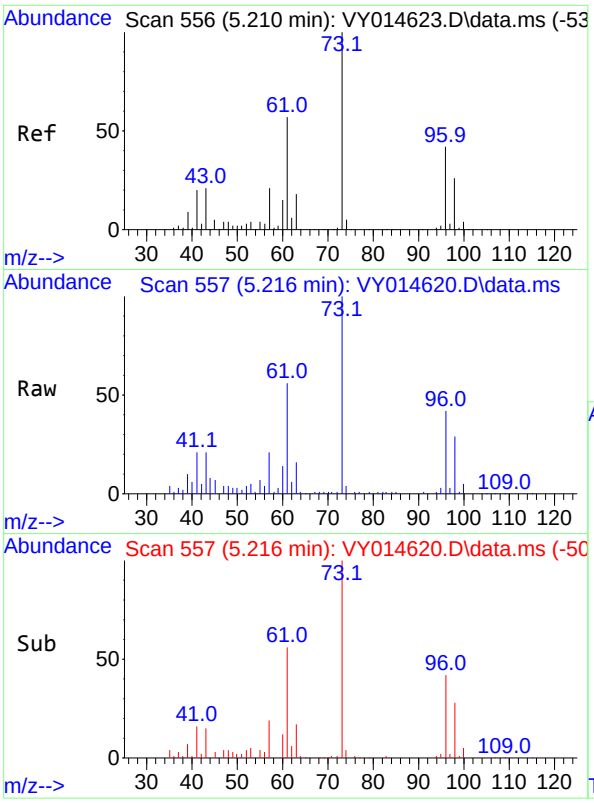


#20
Methylene Chloride
Concen: 3.561 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 84 Resp: 30952

Ion	Ratio	Lower	Upper
84	100		
49	117.3	106.9	160.3
51	34.8	33.2	49.8
86	57.3	51.0	76.6

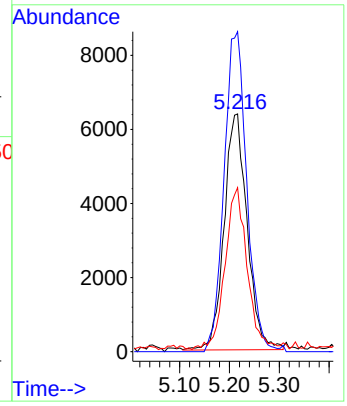




#21
trans-1,2-Dichloroethene
Concen: 5.190 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 96 Resp: 2045

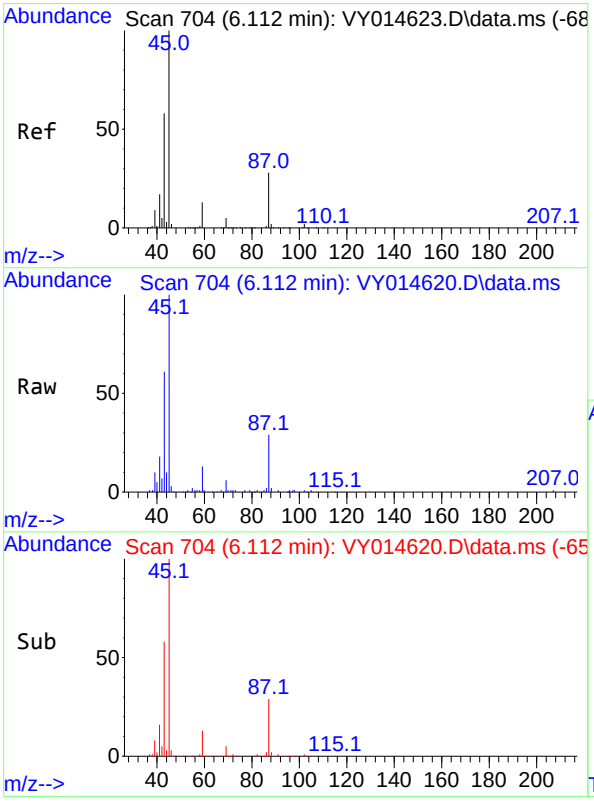
Ion	Ratio	Lower	Upper
96	100		
61	135.7	110.2	165.4
98	67.3	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

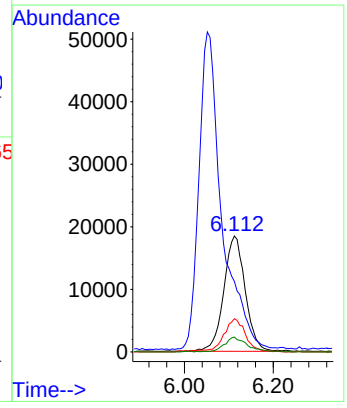
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

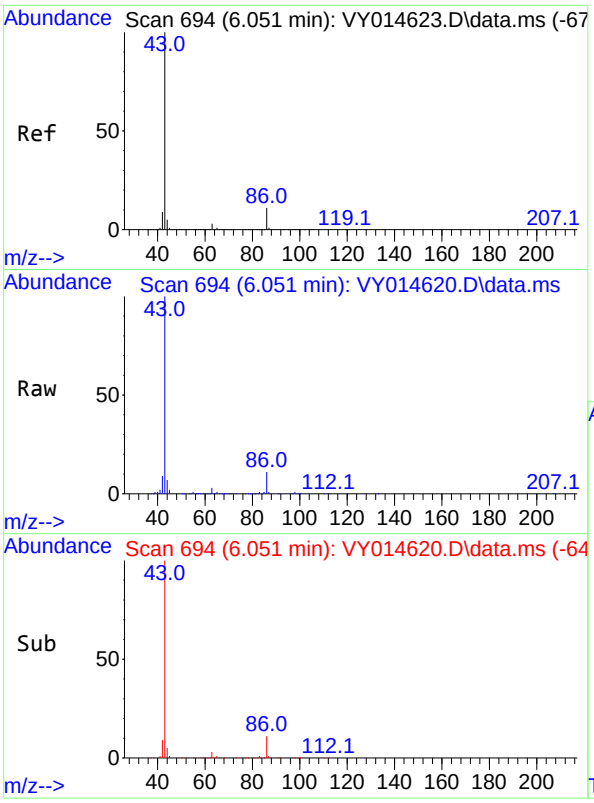


#22
Diisopropyl ether
Concen: 4.928 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 45 Resp: 61765

Ion	Ratio	Lower	Upper
45	100		
43	57.3	52.2	78.4
87	28.8	21.0	31.6
59	12.7	8.9	13.3





#23
Vinyl Acetate
Concen: 24.397 ug/l
RT: 6.051 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

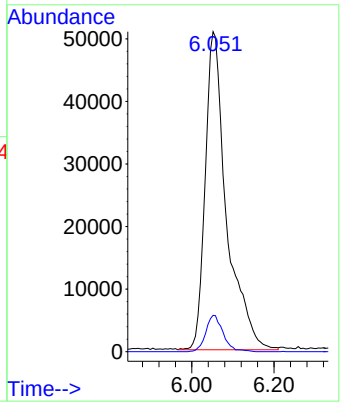
Tgt Ion: 43 Resp: 18299

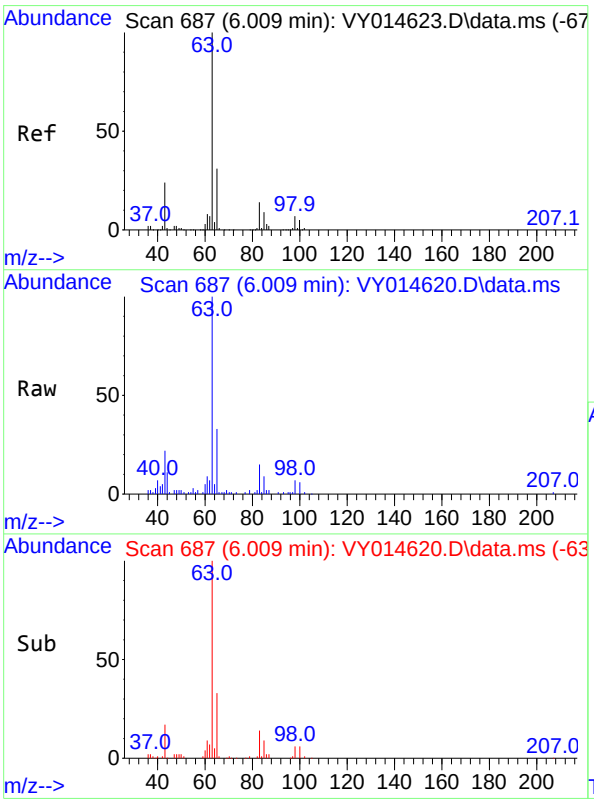
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.5	11.3#

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

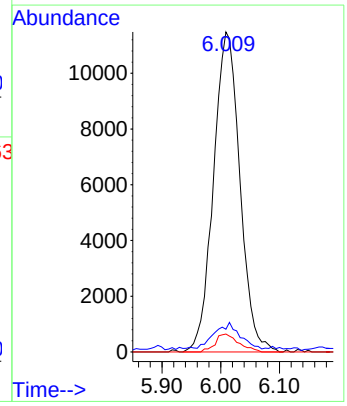


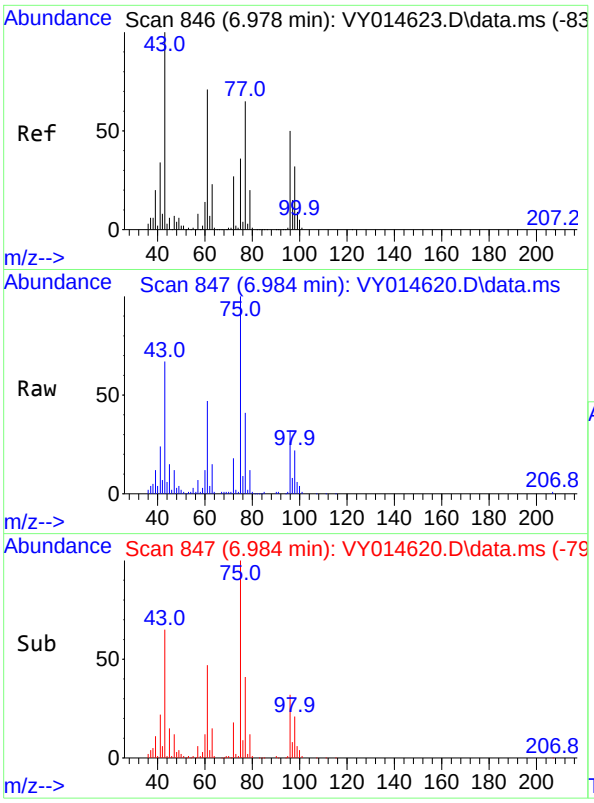


#24
1,1-Dichloroethane
Concen: 5.007 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 63 Resp: 35907

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.1	9.4
100	5.6	1.8	5.5#

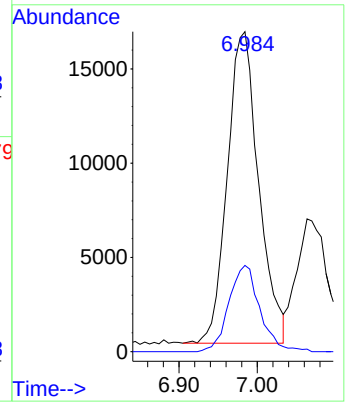




#25
2-Butanone
Concen: 24.677 ug/l
RT: 6.984 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 4596

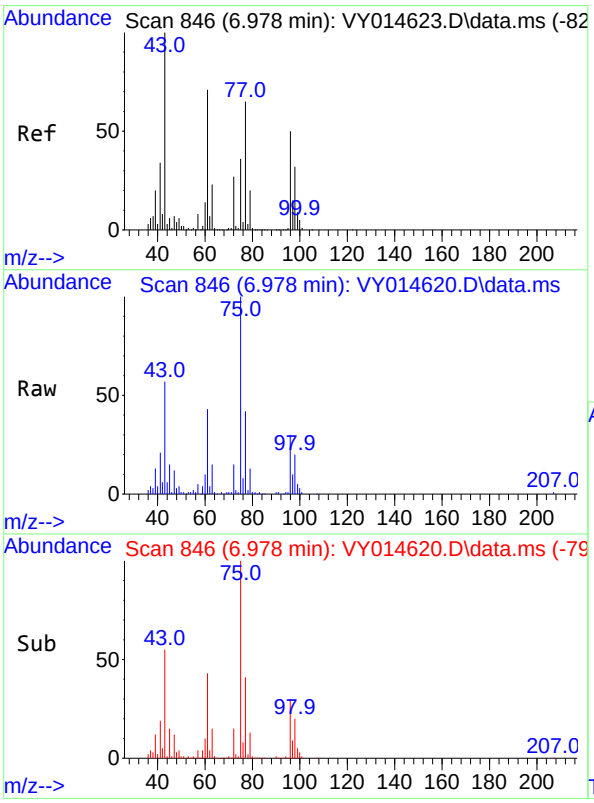
Ion	Ratio	Lower	Upper
43	100		
72	27.7	20.5	30.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

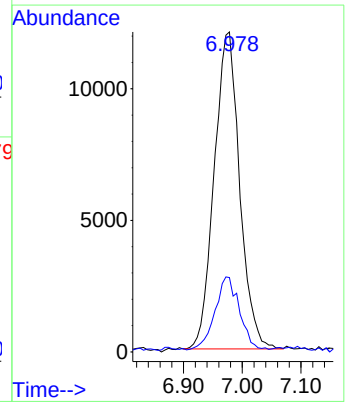
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

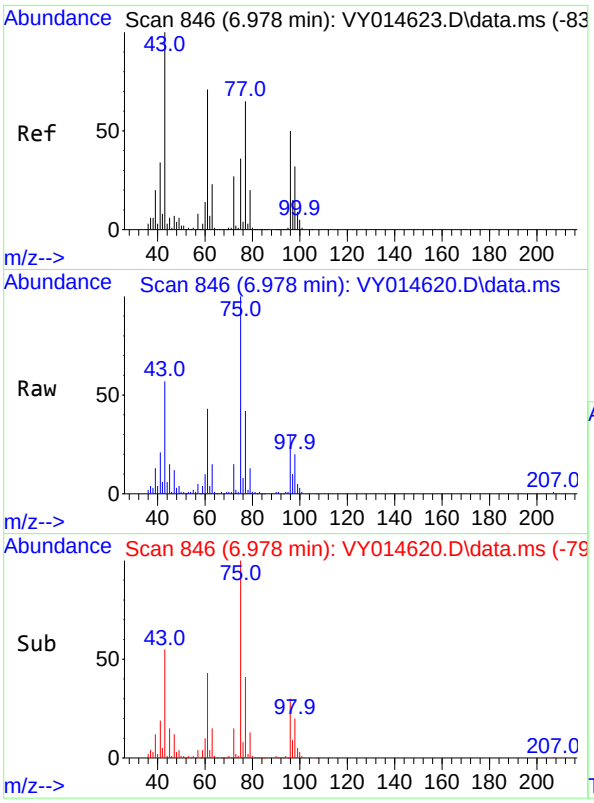


#26
2,2-Dichloropropane
Concen: 5.303 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 77 Resp: 36245

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 5.135 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

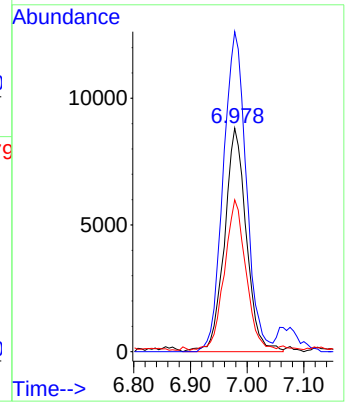
Tgt Ion: 96 Resp: 2355(

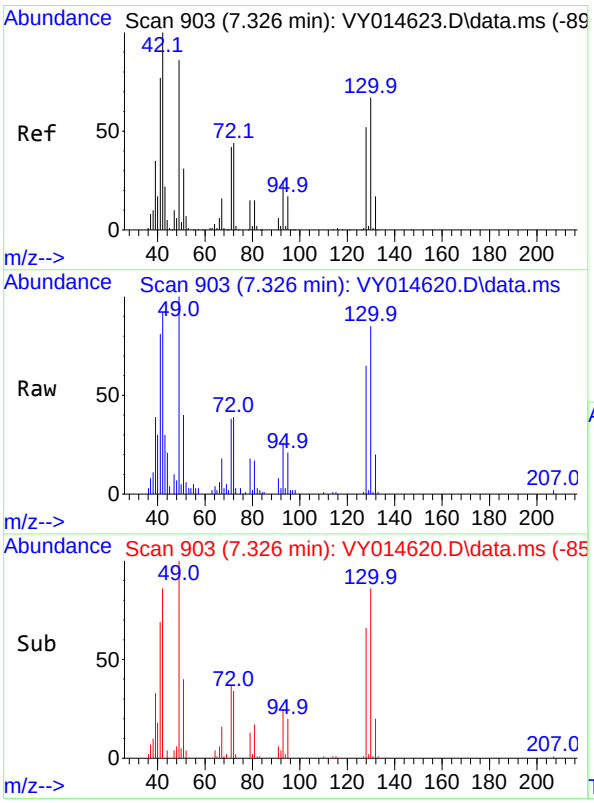
Ion	Ratio	Lower	Upper
96	100		
61	150.8	0.0	301.4
98	66.2	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

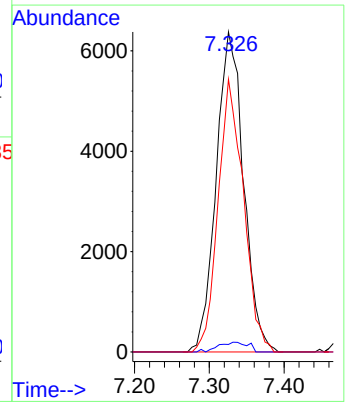


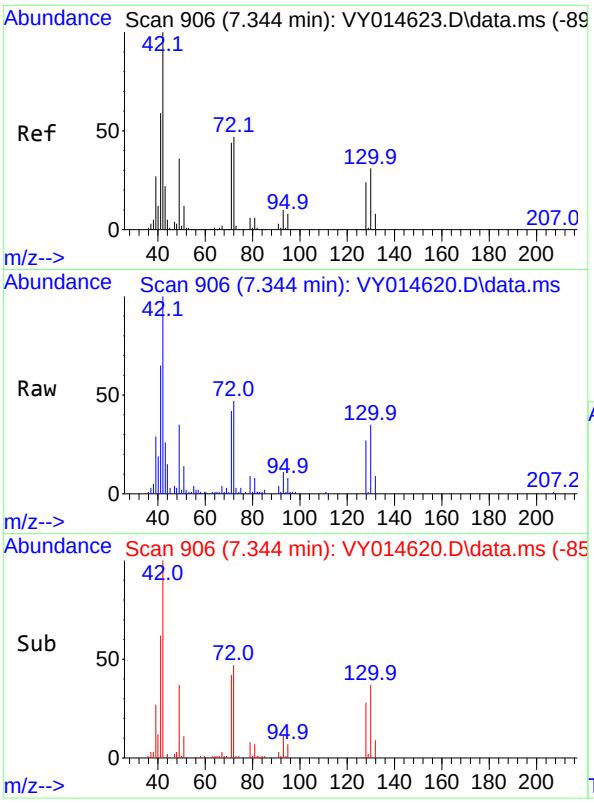


#28
Bromochloromethane
Concen: 5.275 ug/l
RT: 7.326 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 49 Resp: 16293

Ion	Ratio	Lower	Upper
49	100		
129	3.3	0.0	4.6
130	78.9	60.7	91.1

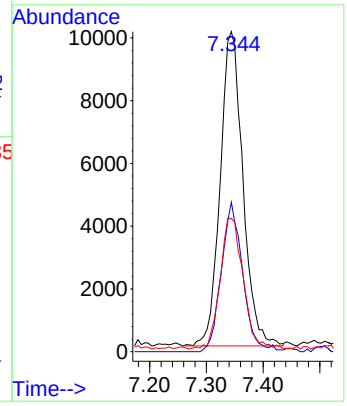




#29
Tetrahydrofuran
Concen: 24.317 ug/l
RT: 7.344 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 42 Resp: 2789

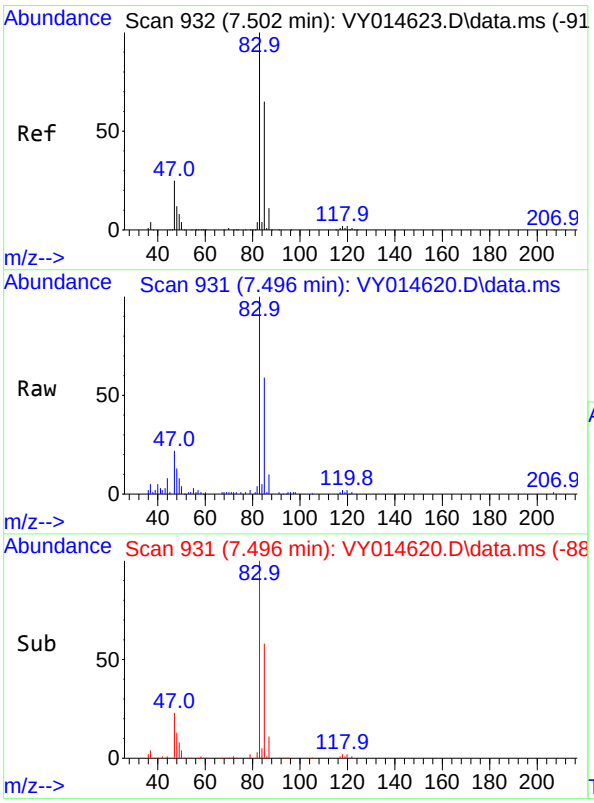
Ion	Ratio	Lower	Upper
42	100		
72	44.6	32.8	49.2
71	42.4	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

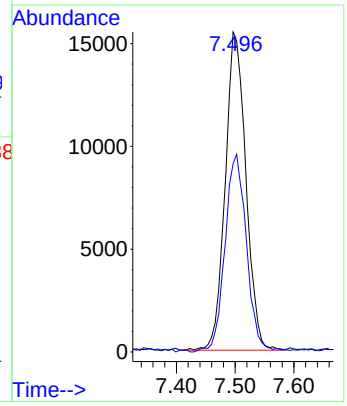
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

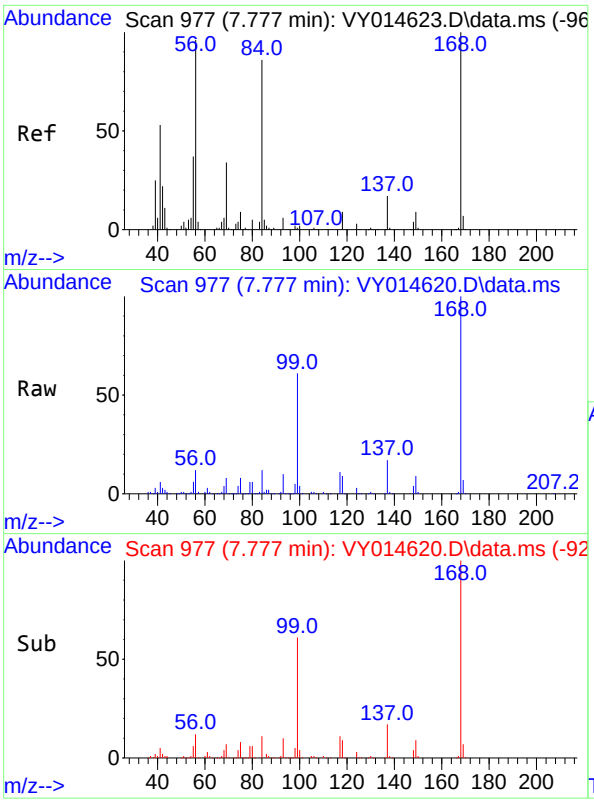


#30
Chloroform
Concen: 5.116 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 83 Resp: 37834

Ion	Ratio	Lower	Upper
83	100		
85	58.5	49.7	74.5

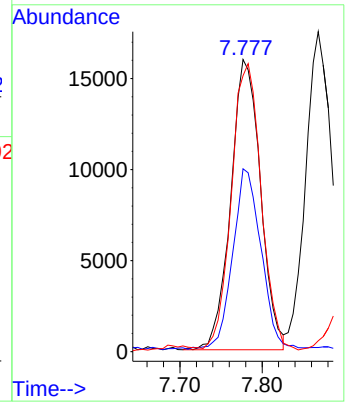




#31
Cyclohexane
Concen: 6.009 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 56 Resp: 4007

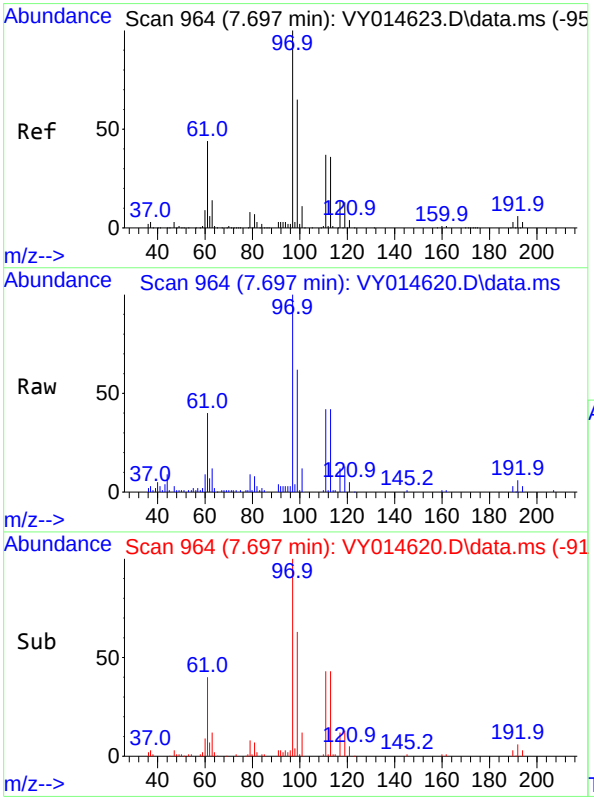
Ion	Ratio	Lower	Upper
56	100		
69	61.7	27.8	41.6
84	93.1	66.4	99.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

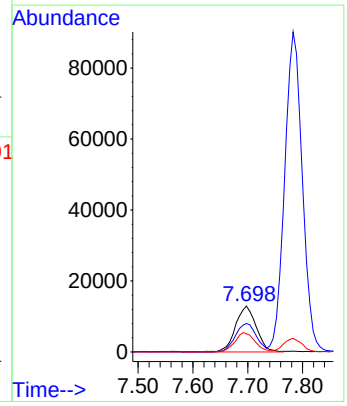
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

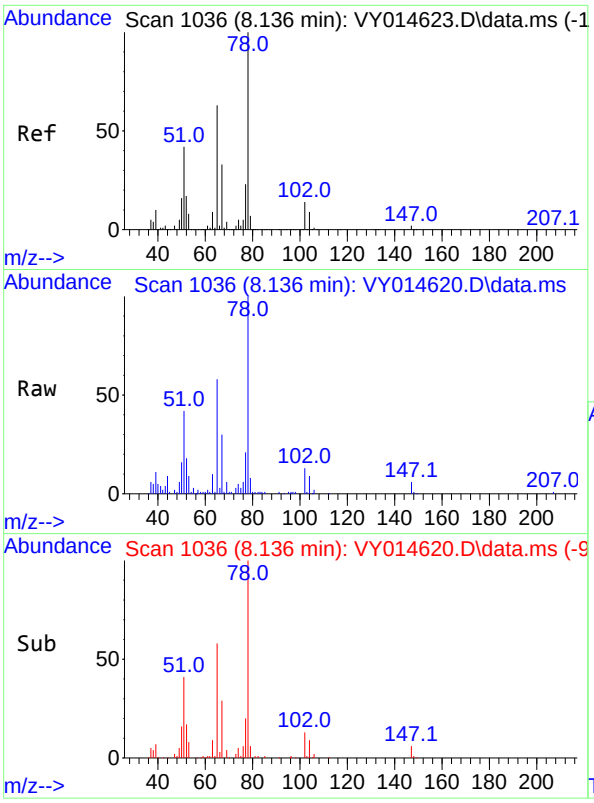


#32
1,1,1-Trichloroethane
Concen: 5.129 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 97 Resp: 34138

Ion	Ratio	Lower	Upper
97	100		
99	62.5	50.8	76.2
61	40.5	35.1	52.7

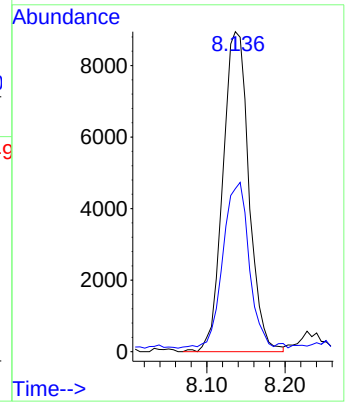




#33
1,2-Dichloroethane-d4
Concen: 5.139 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 65 Resp: 2064

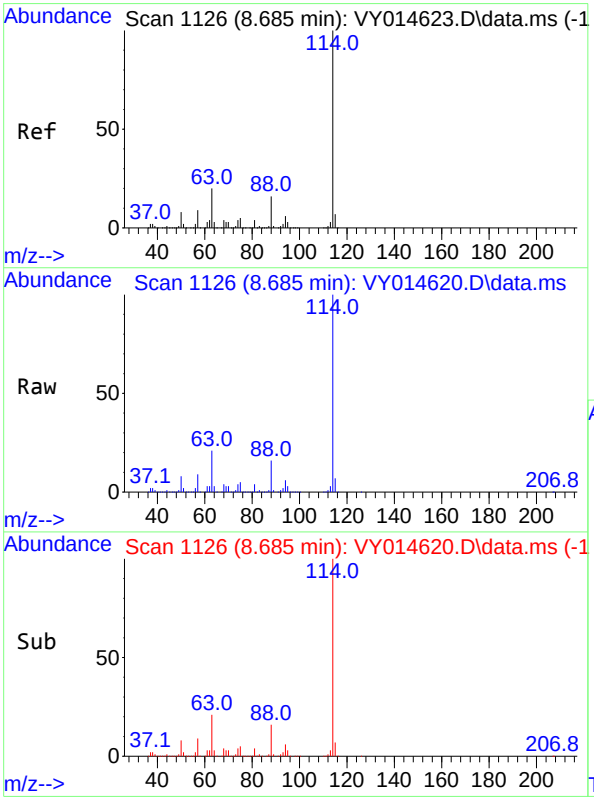
Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

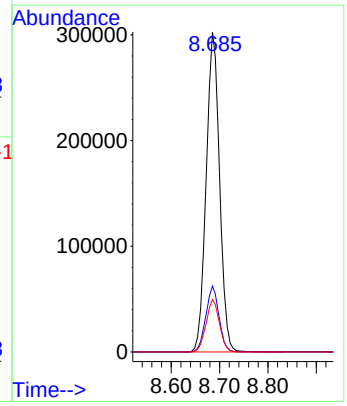
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

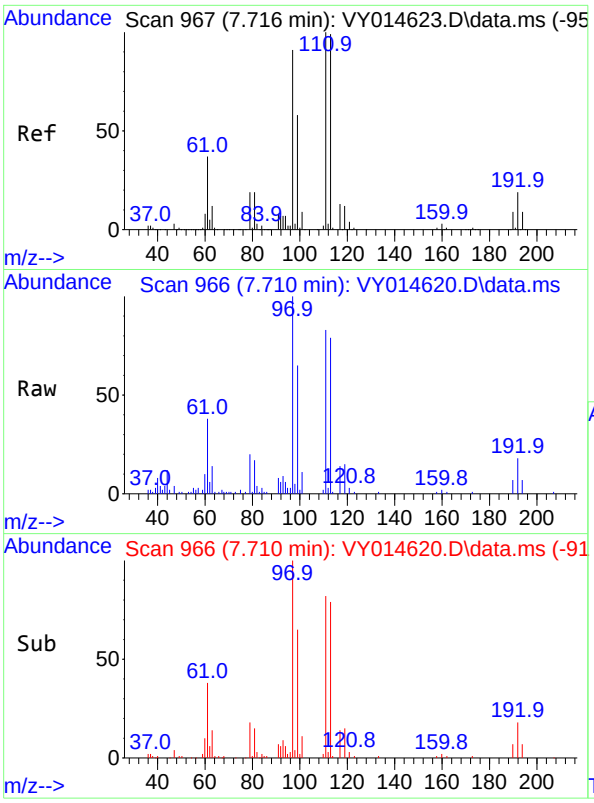


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:114 Resp: 581157

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	42.4
88	16.4	0.0	30.6

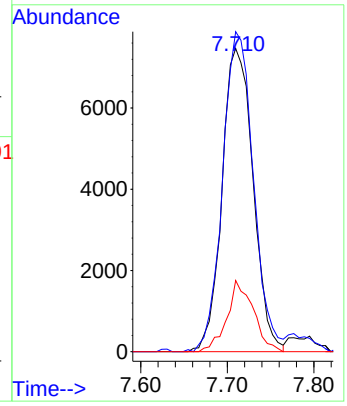




#35
Dibromofluoromethane
Concen: 5.028 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:113 Resp: 1860

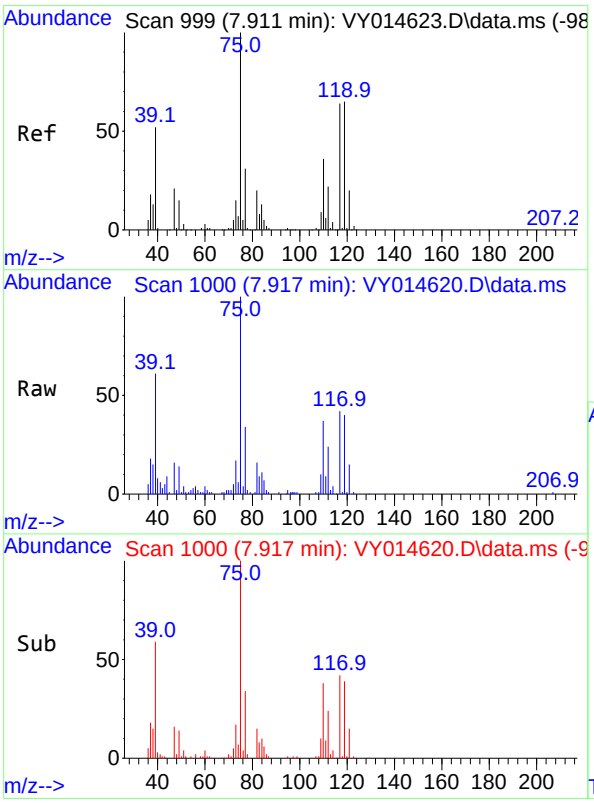
Ion	Ratio	Lower	Upper
113	100		
111	104.6	81.3	121.9
192	20.0	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

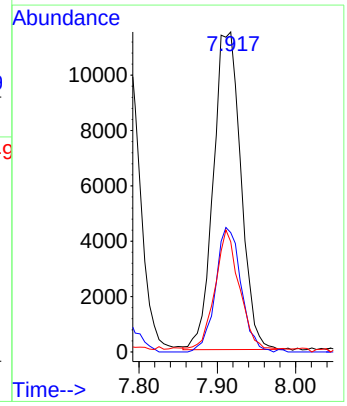
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

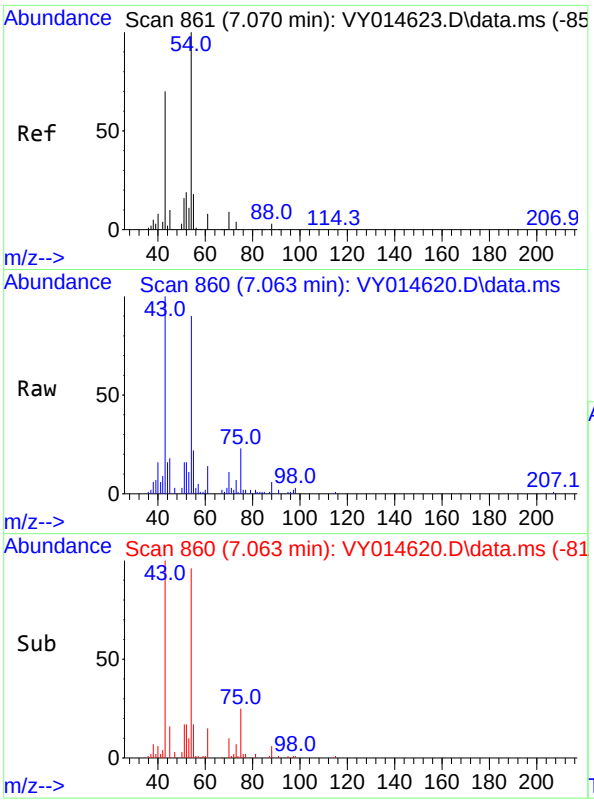


#36
1,1-Dichloropropene
Concen: 5.070 ug/l
RT: 7.917 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 28049

Ion	Ratio	Lower	Upper
75	100		
110	36.4	17.8	53.5
77	33.9	24.4	36.6

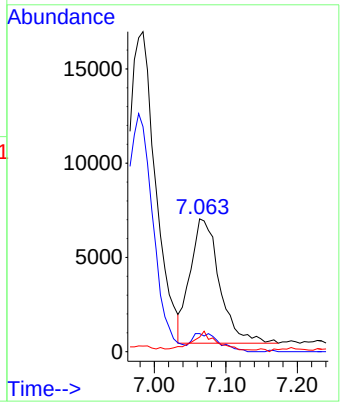




#37
Ethyl Acetate
Concen: 4.959 ug/l
RT: 7.063 min Scan# 8
Delta R.T. -0.007 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 1888

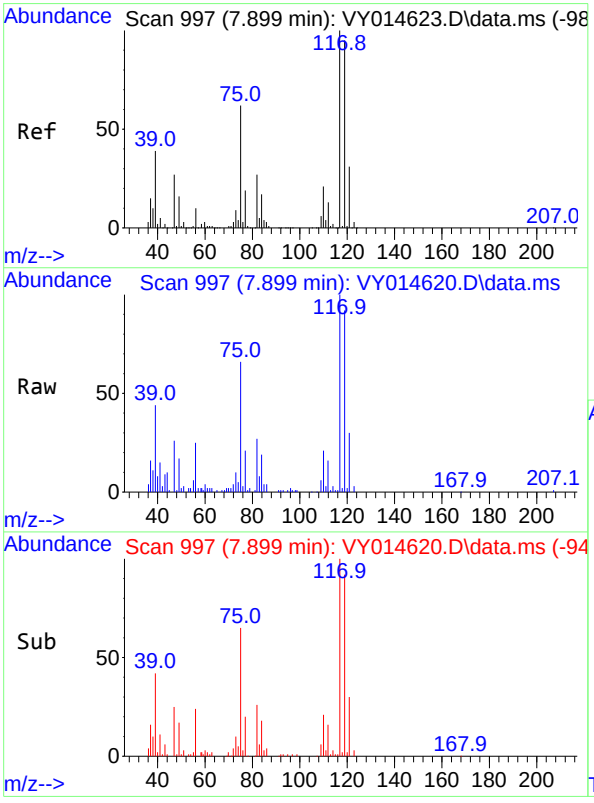
Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.1	15.1
70	11.2	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

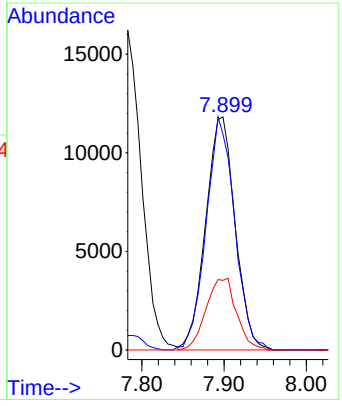
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

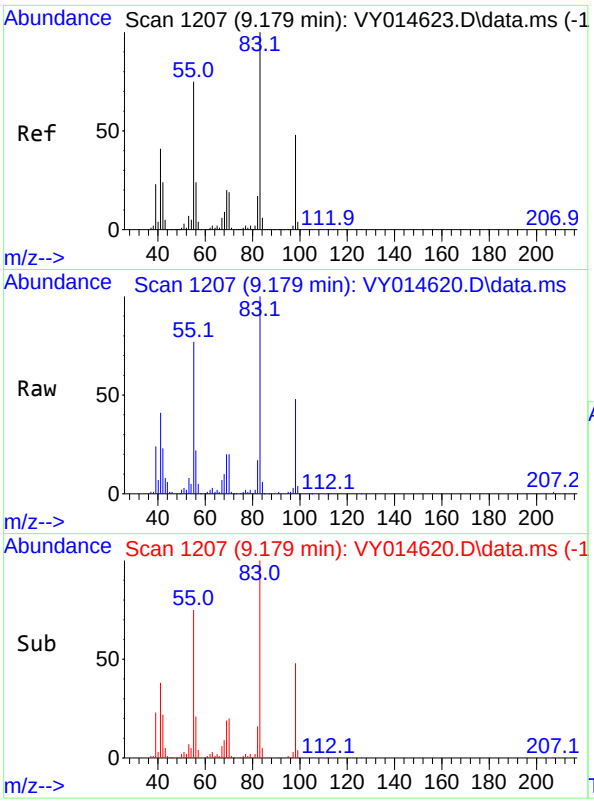


#38
Carbon Tetrachloride
Concen: 5.024 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:117 Resp: 29383

Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.4	114.6
121	29.8	25.8	38.6





#39
Methylcyclohexane
Concen: 5.297 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

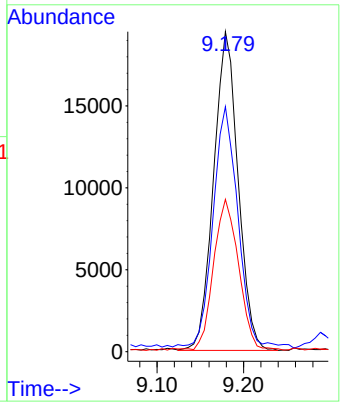
Tgt Ion: 83 Resp: 3817

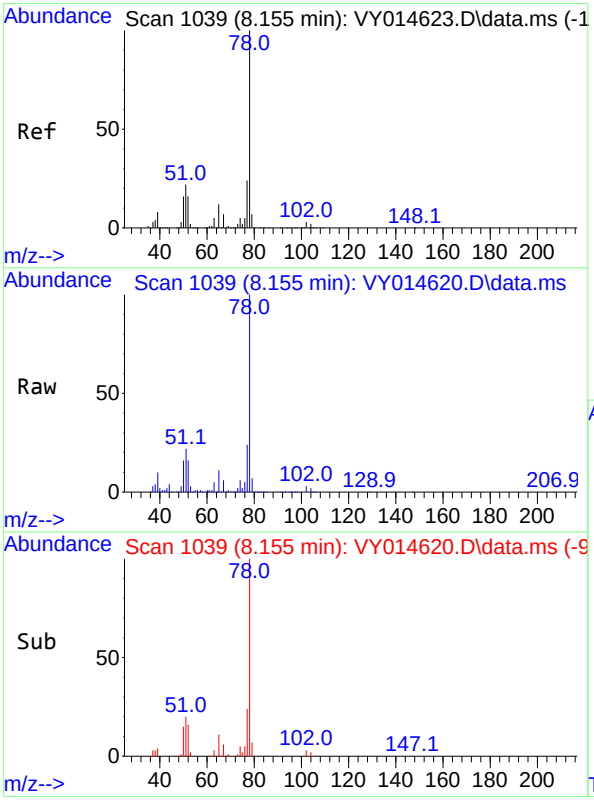
Ion	Ratio	Lower	Upper
83	100		
55	74.8	63.0	94.4
98	46.9	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

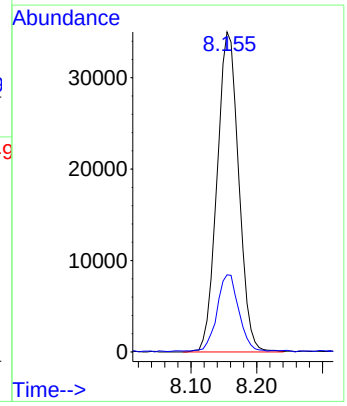


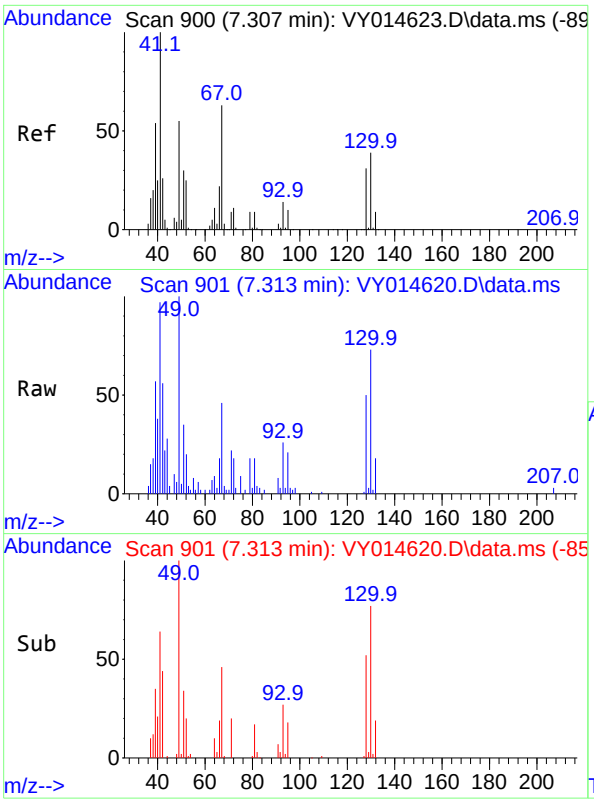


#40
Benzene
Concen: 5.094 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 78 Resp: 80151

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

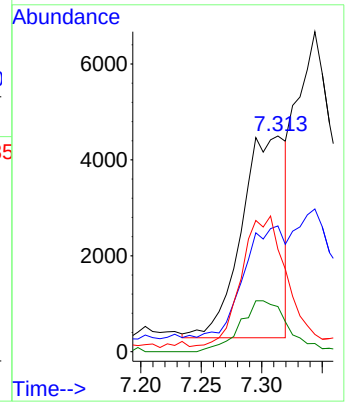




#41
Methacrylonitrile
Concen: 5.357 ug/l m
RT: 7.313 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 41 Resp: 1079

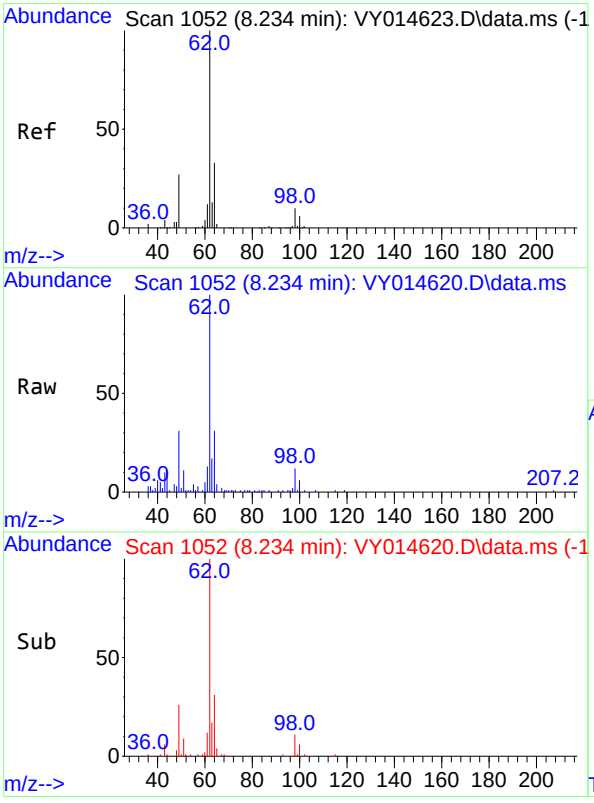
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

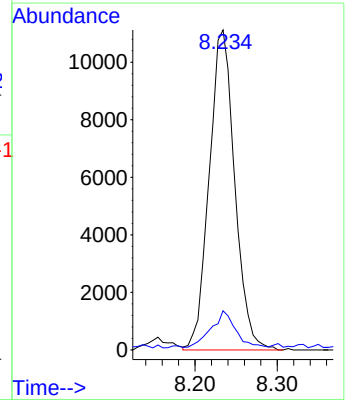
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

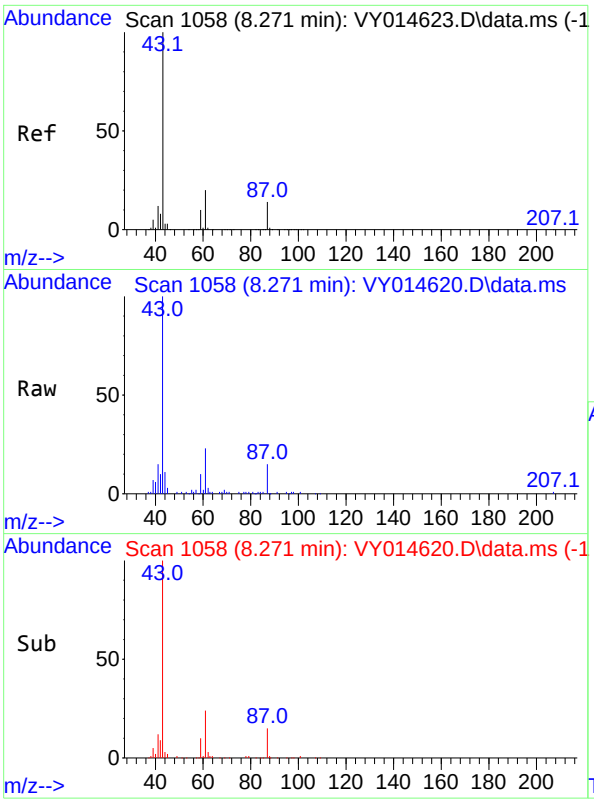


#42
1,2-Dichloroethane
Concen: 4.818 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 62 Resp: 24005

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	15.8

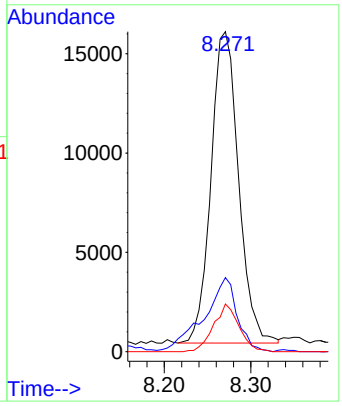




#43
Isopropyl Acetate
Concen: 4.777 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 3465

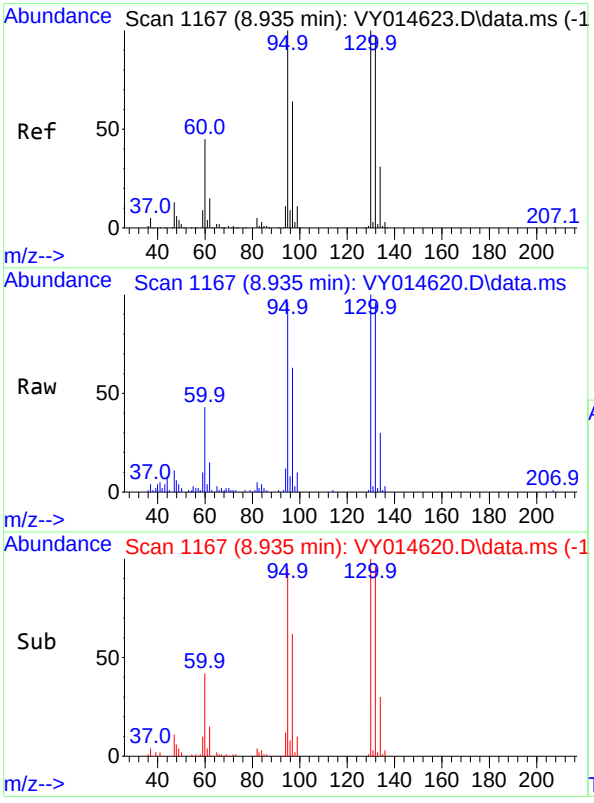
Ion	Ratio	Lower	Upper
43	100		
61	28.9	21.1	31.7
87	14.1	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

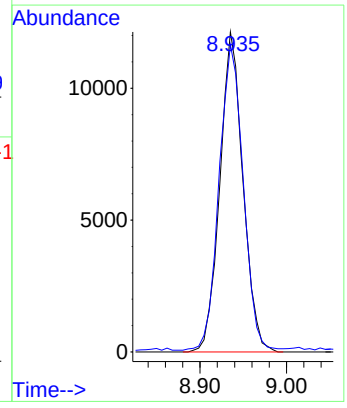
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

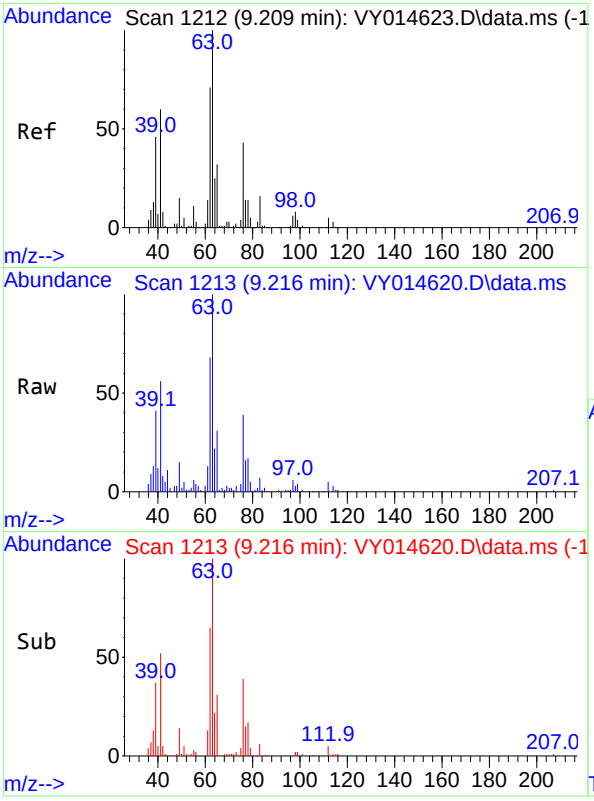


#44
Trichloroethene
Concen: 5.098 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:130 Resp: 22443

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	196.0

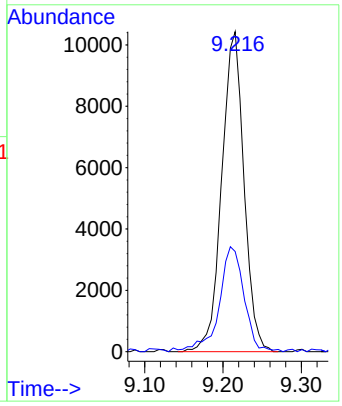




#45
1,2-Dichloropropane
Concen: 5.012 ug/l
RT: 9.216 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 63 Resp: 2059

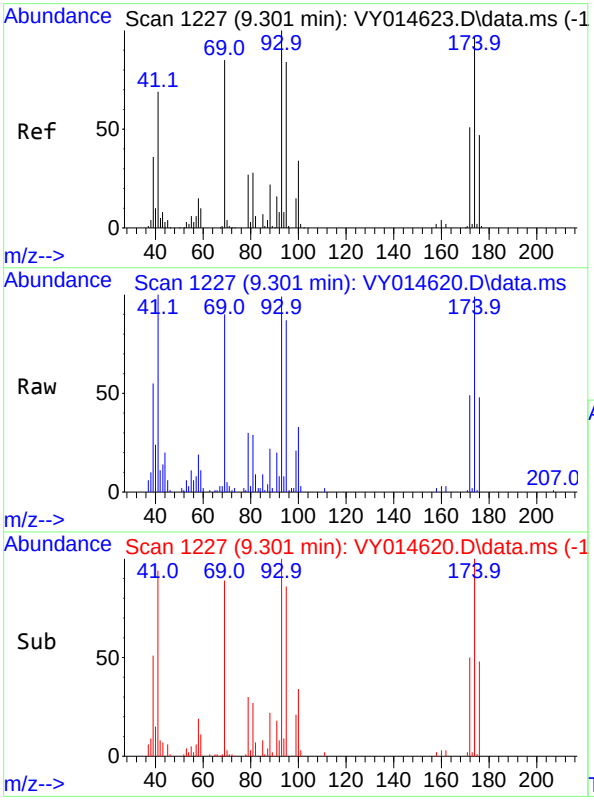
Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

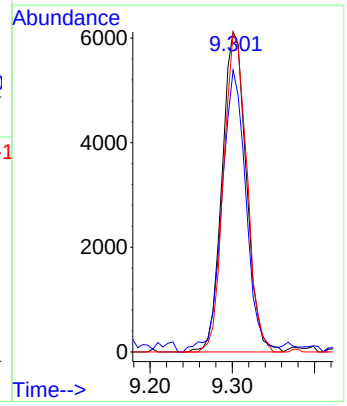
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

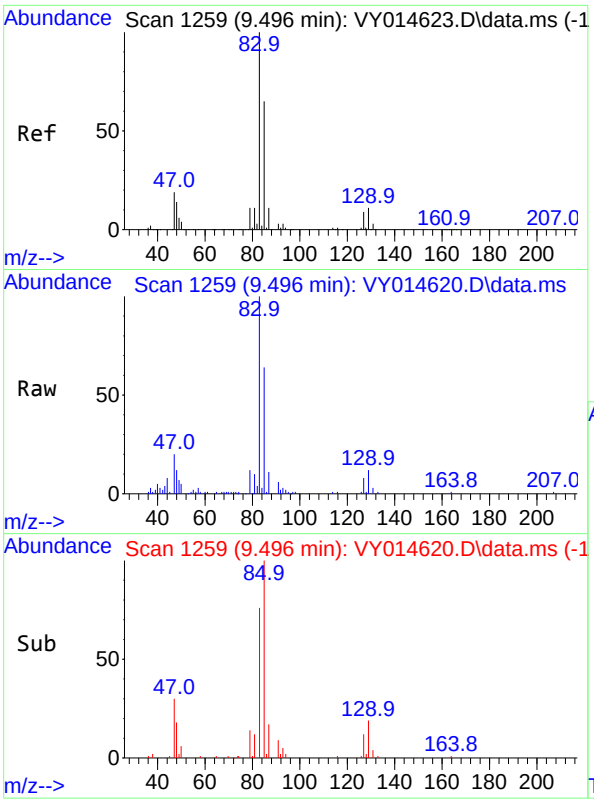


#46
Dibromomethane
Concen: 5.025 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 93 Resp: 12525

Ion	Ratio	Lower	Upper
93	100		
95	87.4	66.6	100.0
174	95.3	84.8	127.2

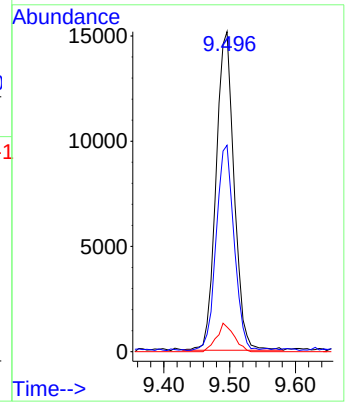




#47
Bromodichloromethane
Concen: 4.924 ug/l
RT: 9.496 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 83 Resp: 2892

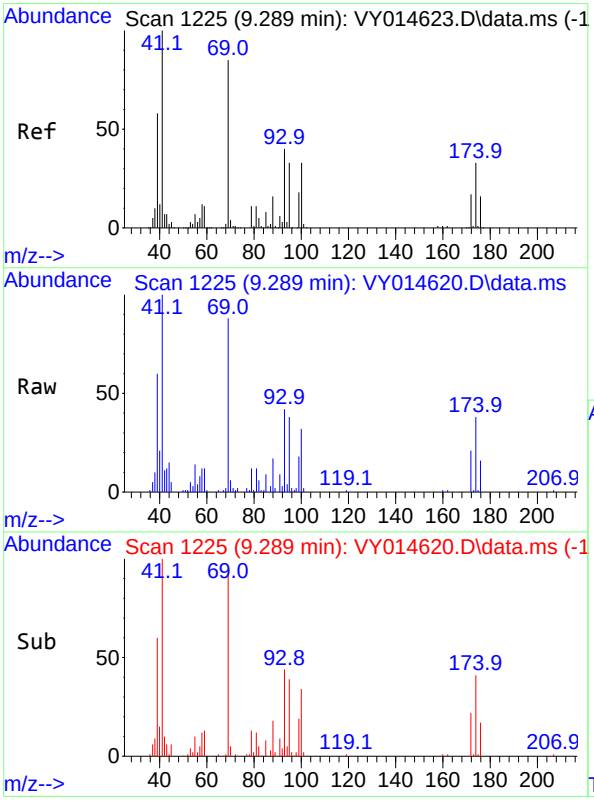
Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.1	75.1
127	7.7	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

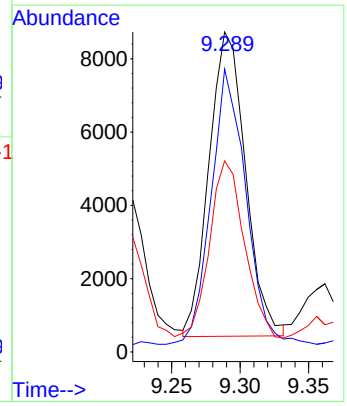
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

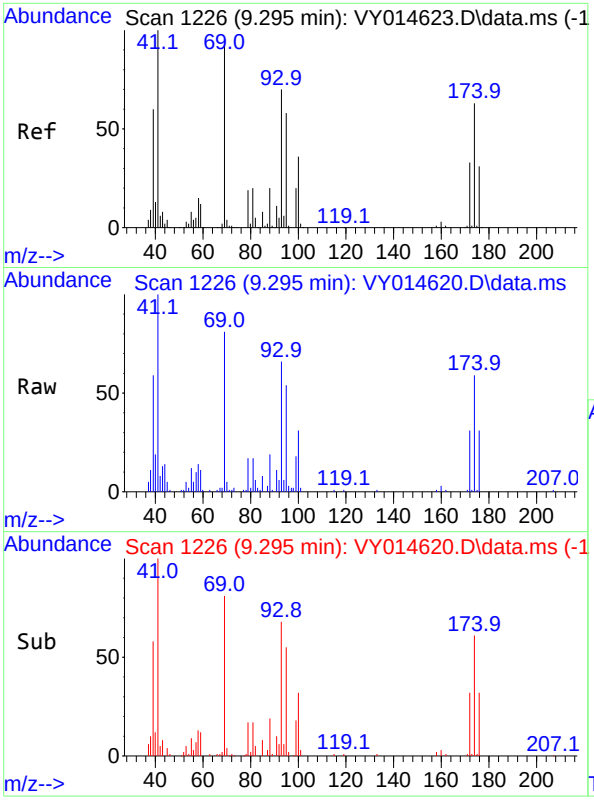


#48
Methyl methacrylate
Concen: 4.714 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 41 Resp: 15391

Ion	Ratio	Lower	Upper
41	100		
69	89.3	64.5	96.7
39	56.3	50.8	76.2





#49
1,4-Dioxane
Concen: 93.522 ug/l
RT: 9.295 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

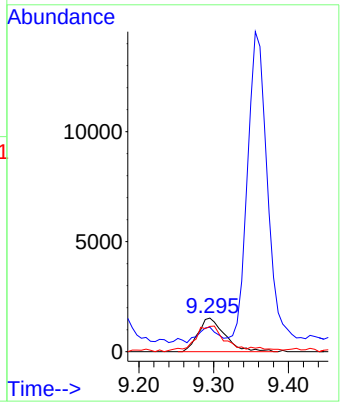
Tgt Ion: 88 Resp: 380

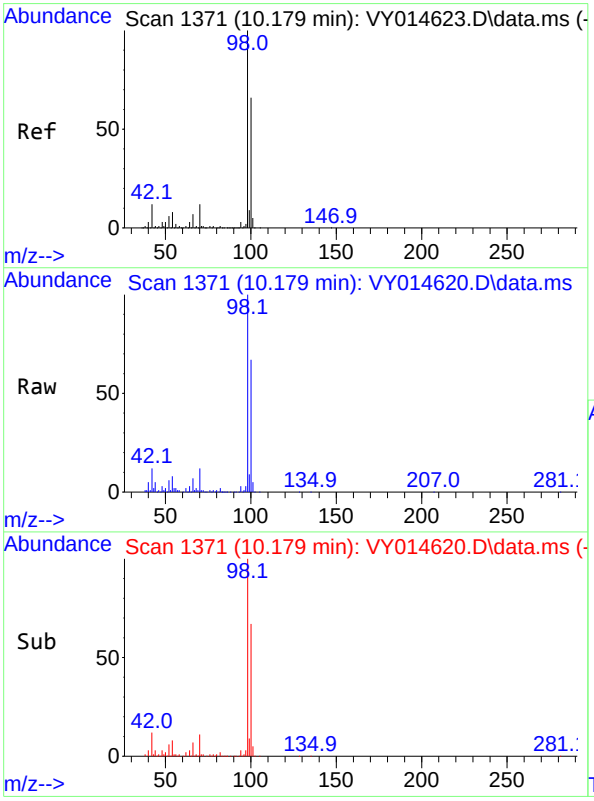
Ion	Ratio	Lower	Upper
88	100		
43	32.6	0.0	0.0#
58	85.4	30.9	46.3#

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

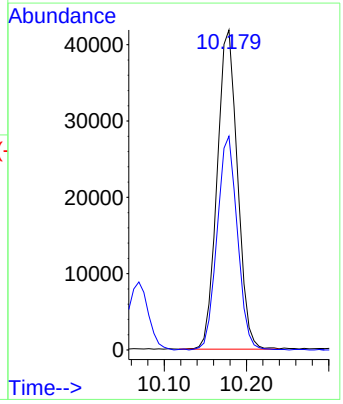


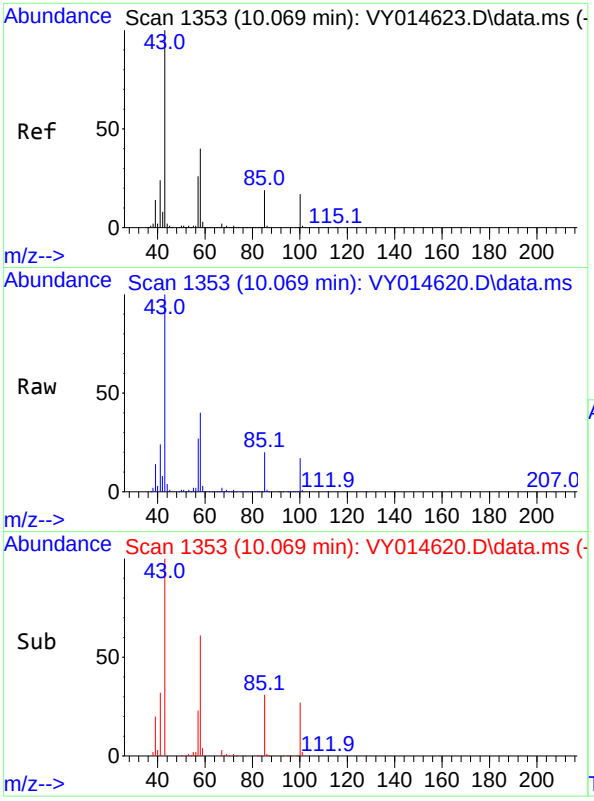


#50
Toluene-d8
Concen: 5.274 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 98 Resp: 71932

Ion	Ratio	Lower	Upper
98	100		
100	66.9	50.1	75.1

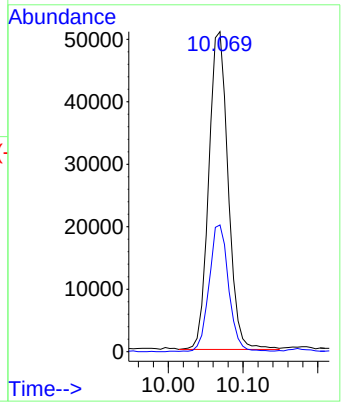




#51
4-Methyl-2-Pentanone
Concen: 24.010 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 9147

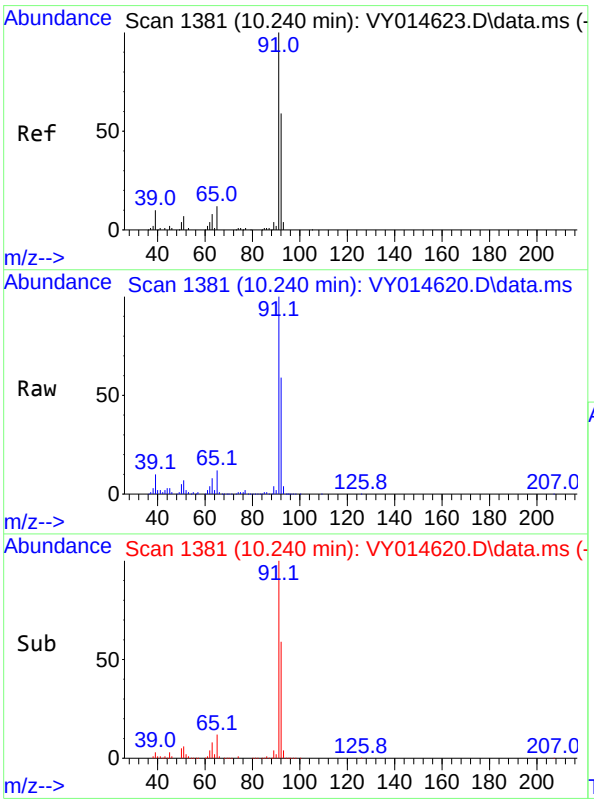
Ion	Ratio	Lower	Upper
43	100		
58	40.4	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

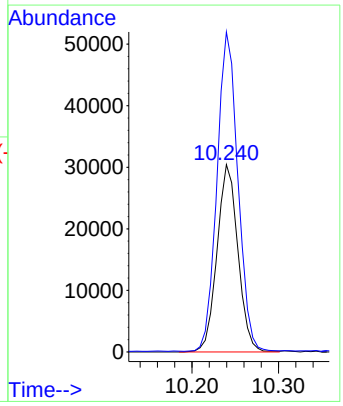
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

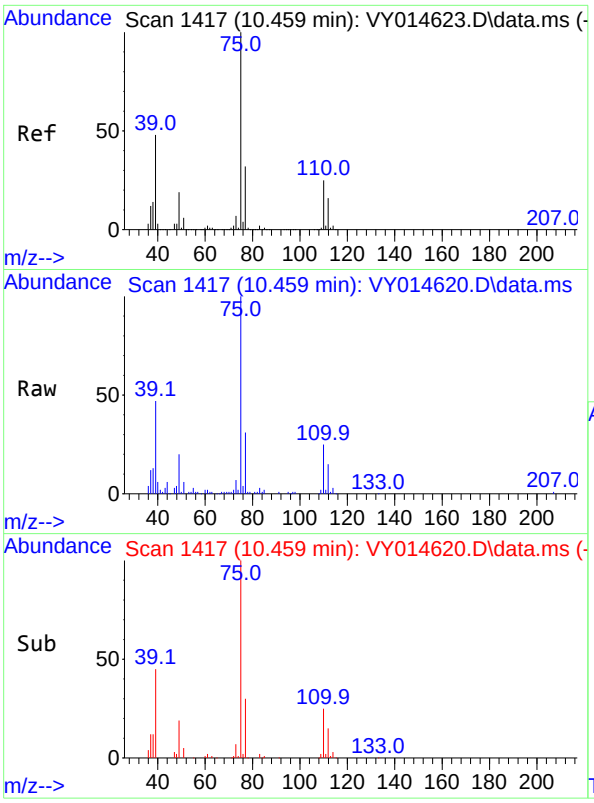


#52
Toluene
Concen: 5.061 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 92 Resp: 50956

Ion	Ratio	Lower	Upper
92	100		
91	170.6	143.8	215.6

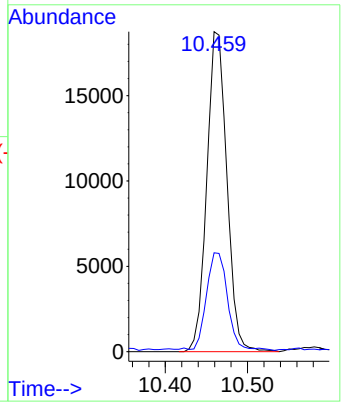




#53
t-1,3-Dichloropropene
Concen: 4.944 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 3177

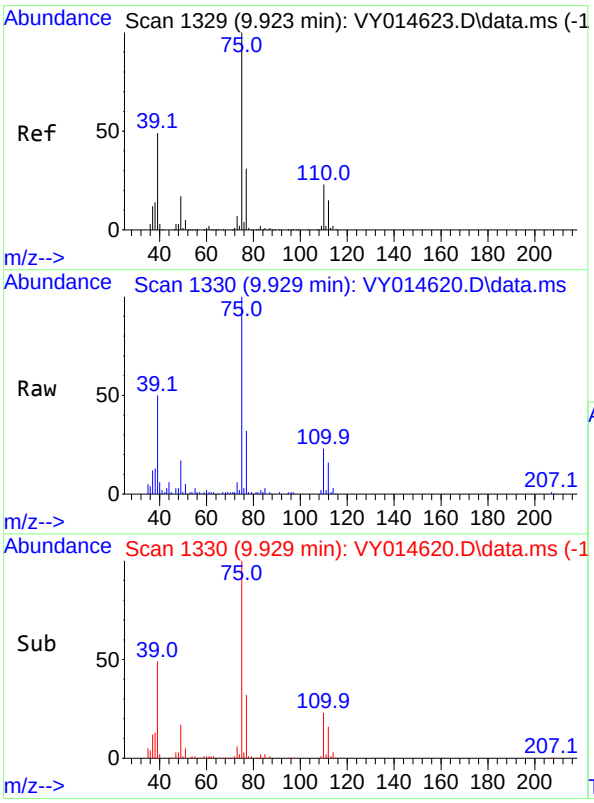
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

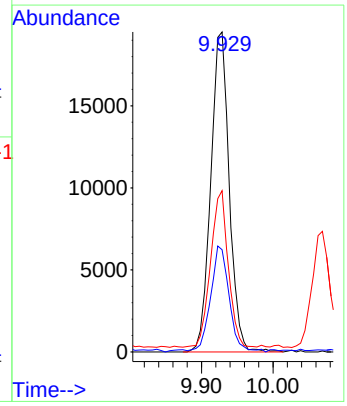
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

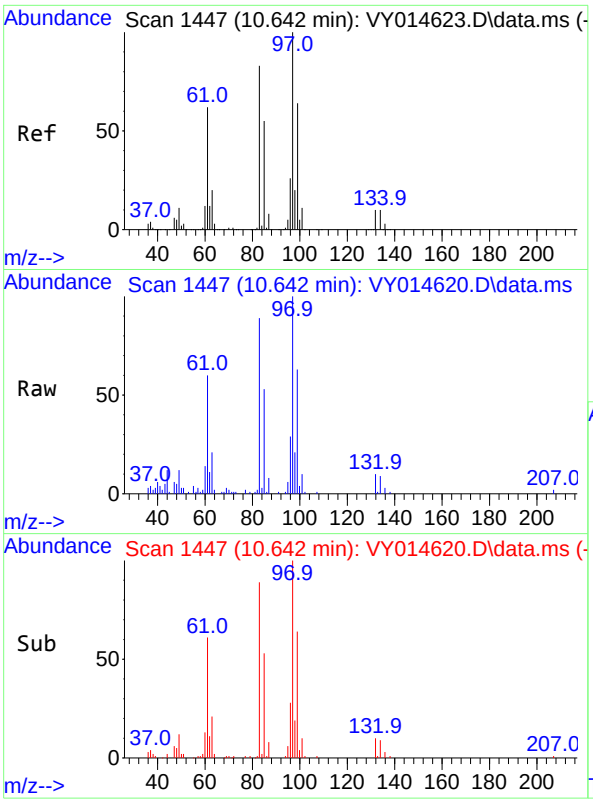


#54
cis-1,3-Dichloropropene
Concen: 5.014 ug/l
RT: 9.929 min Scan# 1330
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 35040

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.2	36.4
39	48.9	42.2	63.4

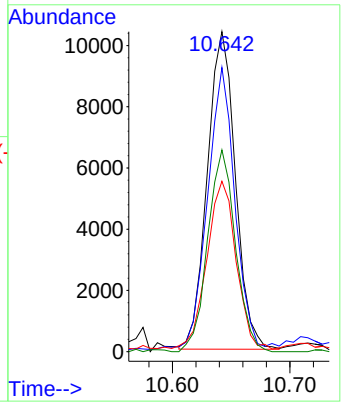




#55
1,1,2-Trichloroethane
Concen: 4.974 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 97 Resp: 1727

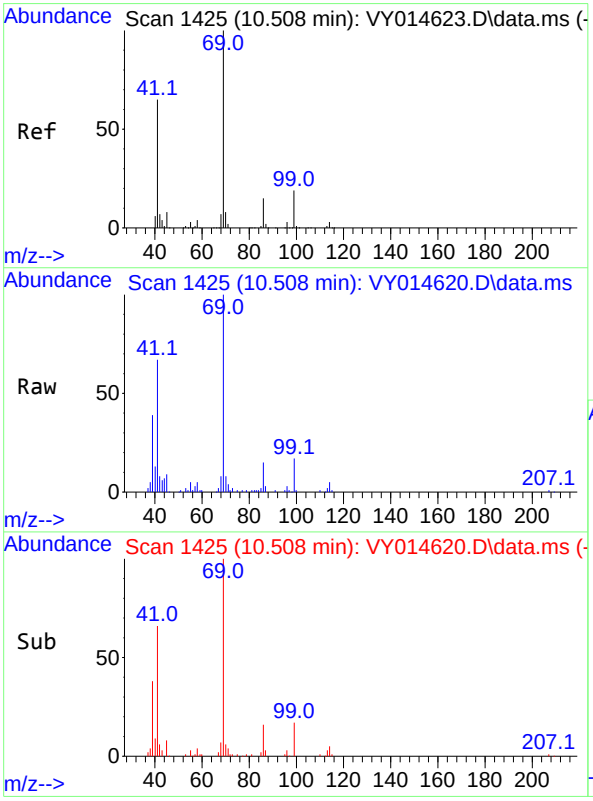
Ion	Ratio	Lower	Upper
97	100		
83	88.1	72.0	108.0
85	52.6	45.4	68.0
99	63.7	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

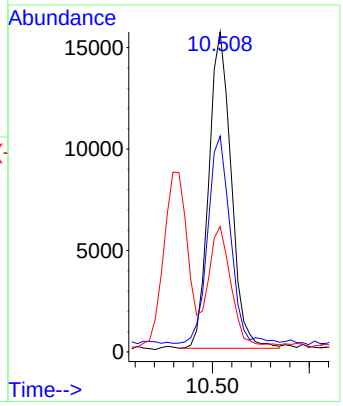
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

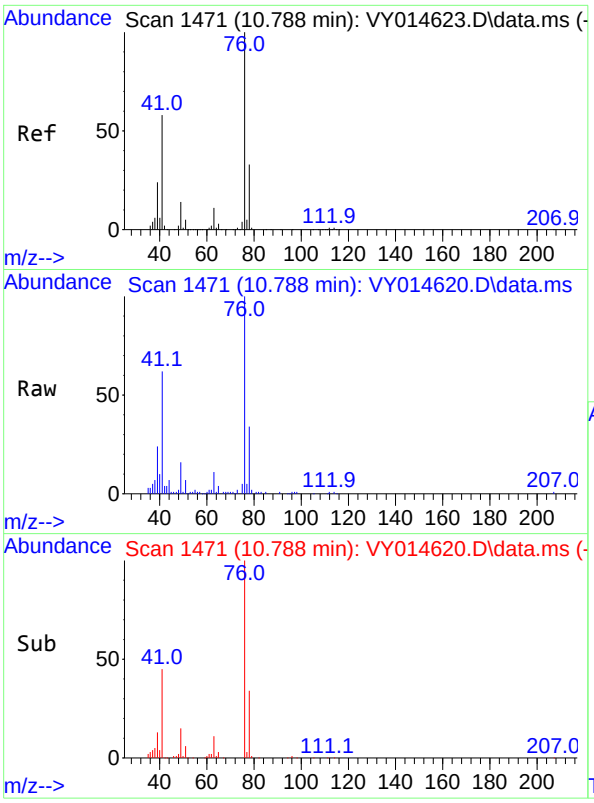


#56
Ethyl methacrylate
Concen: 4.737 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 69 Resp: 25112

Ion	Ratio	Lower	Upper
69	100		
41	65.9	57.6	86.4
39	37.3	34.1	51.1

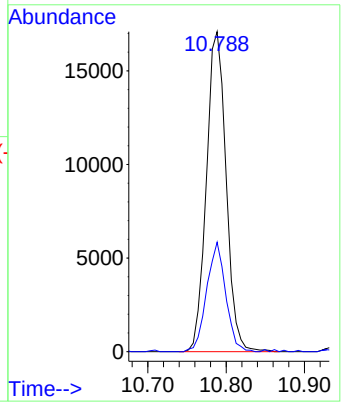




#57
1,3-Dichloropropane
Concen: 4.978 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 76 Resp: 2981

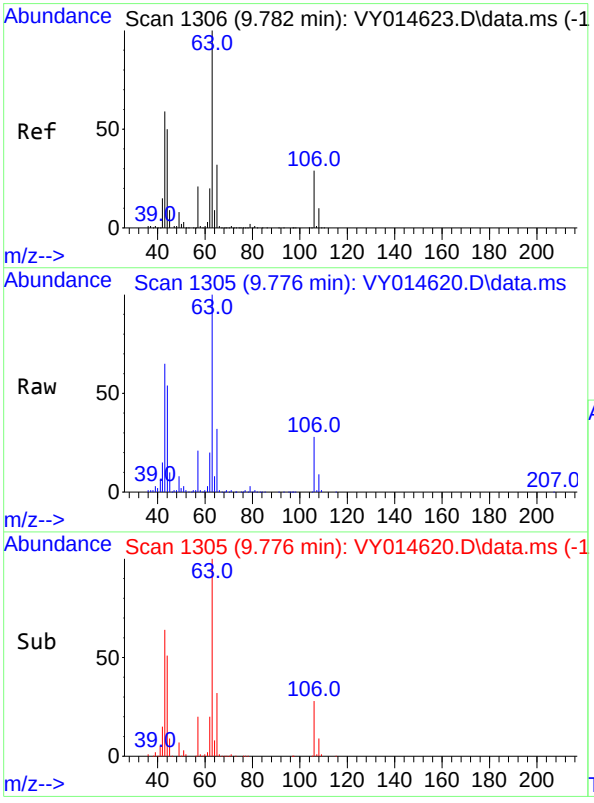
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

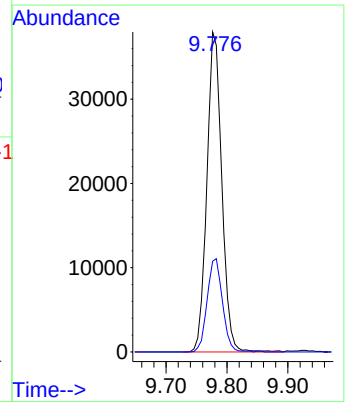
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

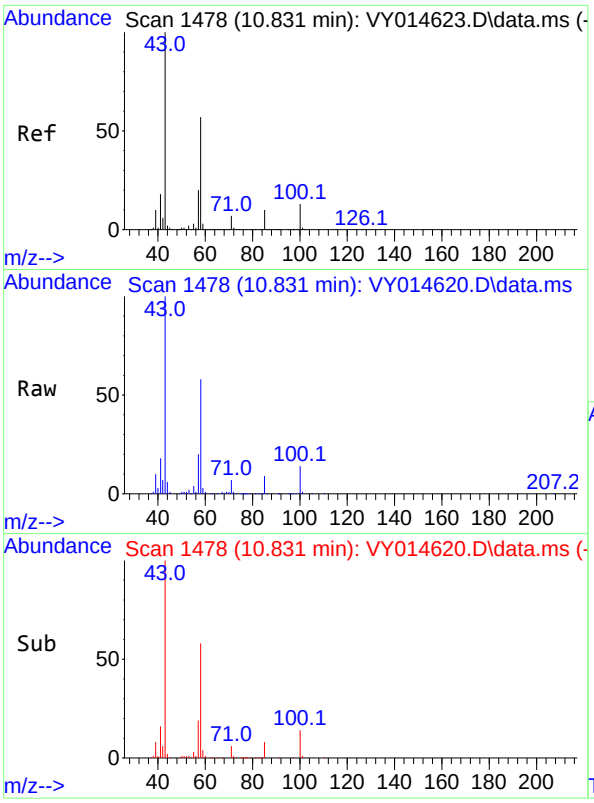


#58
2-Chloroethyl Vinyl ether
Concen: 26.185 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 63 Resp: 64678

Ion	Ratio	Lower	Upper
63	100		
106	29.9	21.2	31.8





#59
2-Hexanone
Concen: 23.430 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

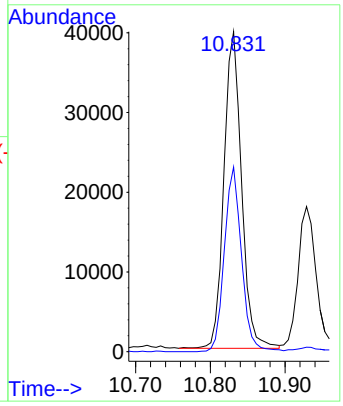
Tgt Ion: 43 Resp: 6509

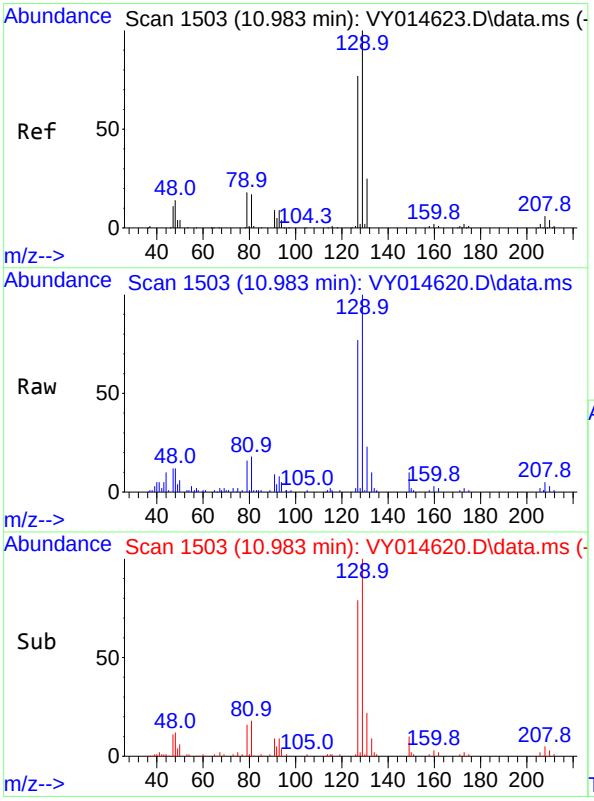
Ion	Ratio	Lower	Upper
43	100		
58	56.8	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

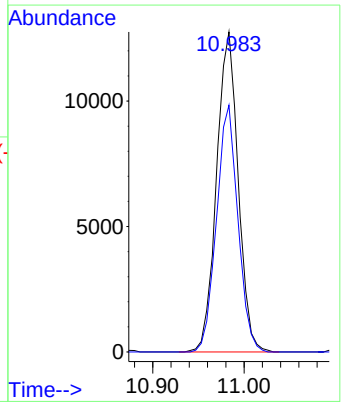


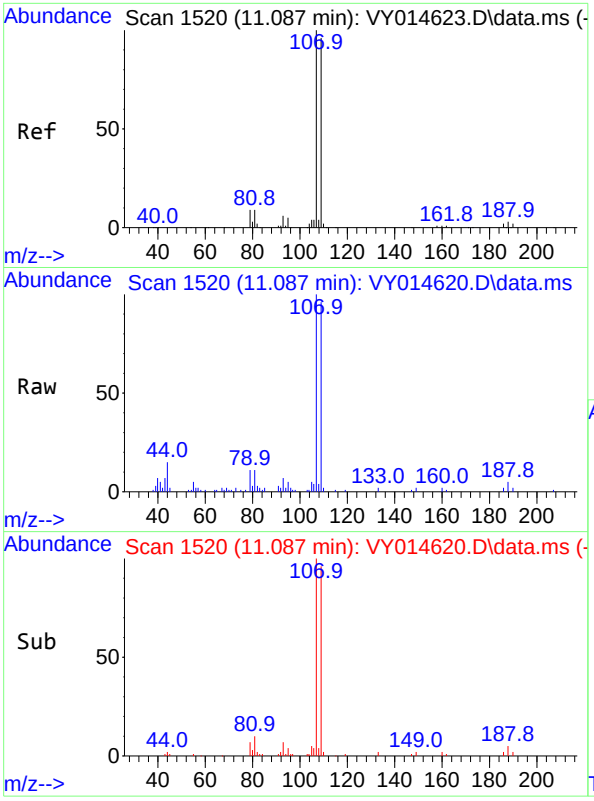


#60
Dibromochloromethane
Concen: 4.927 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:129 Resp: 20972

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.5

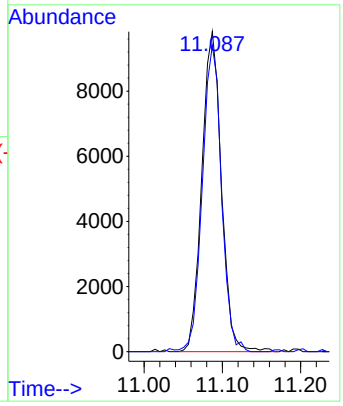




#61
1,2-Dibromoethane
Concen: 4.915 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:107 Resp: 1702

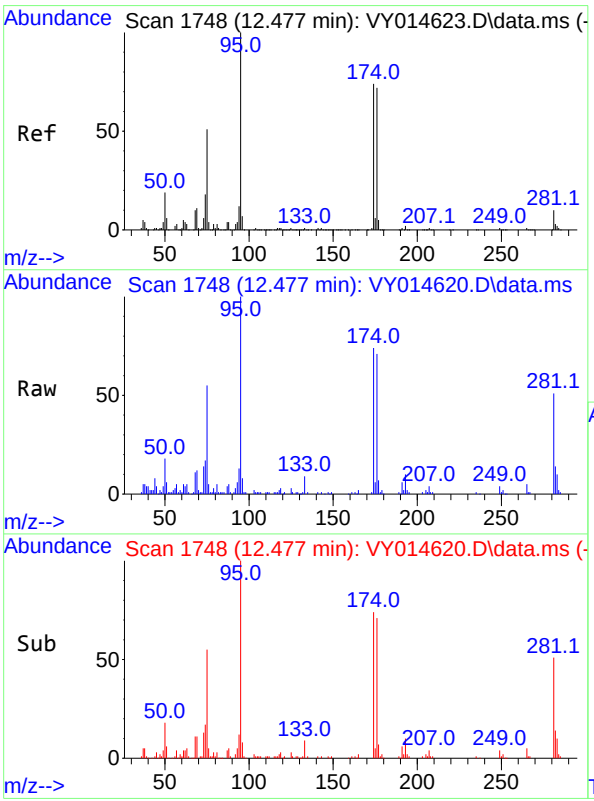
Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

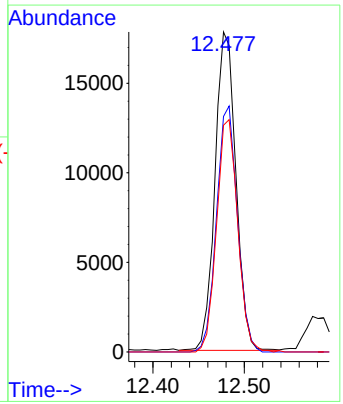
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

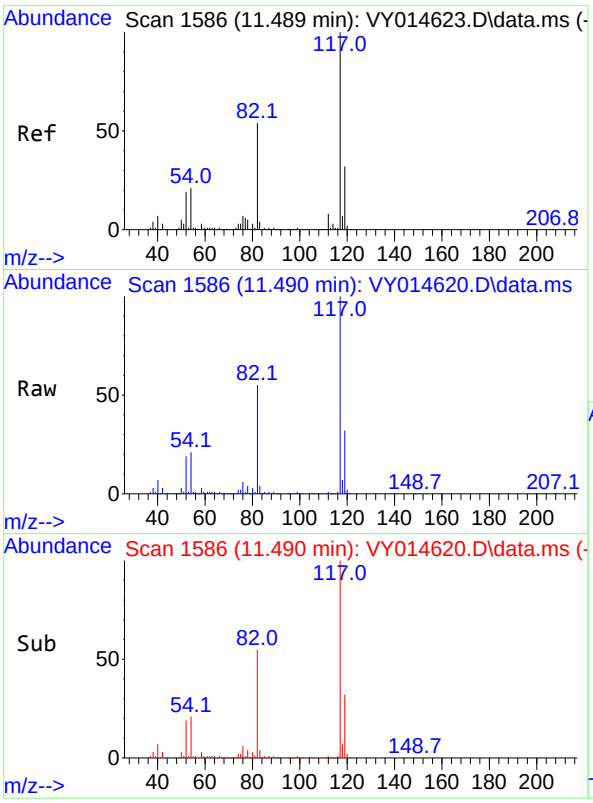


#62
4-Bromofluorobenzene
Concen: 5.400 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 95 Resp: 28239

Ion	Ratio	Lower	Upper
95	100		
174	77.4	0.0	178.2
176	73.8	0.0	173.8

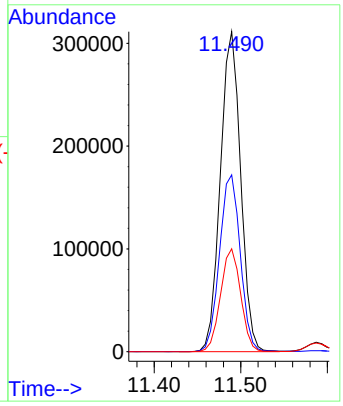




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:117 Resp: 50646

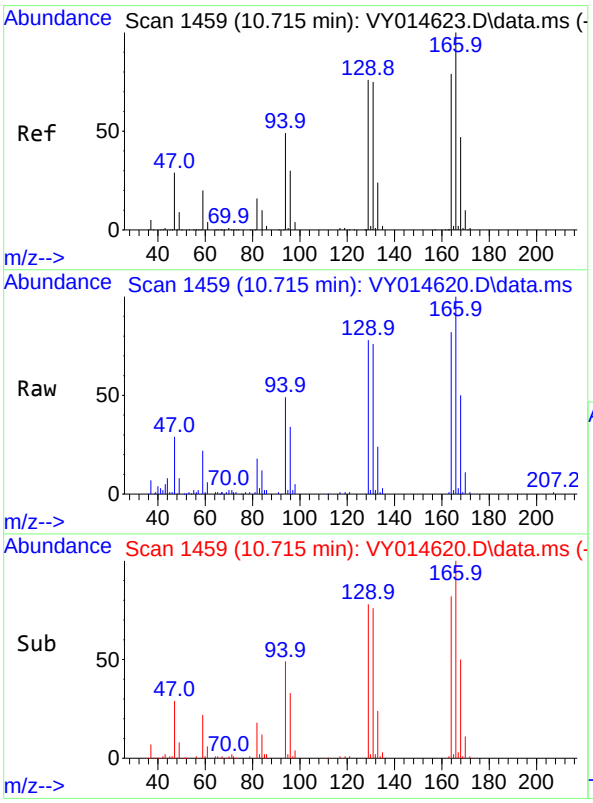
Ion	Ratio	Lower	Upper
117	100		
82	55.2	43.4	65.0
119	32.2	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

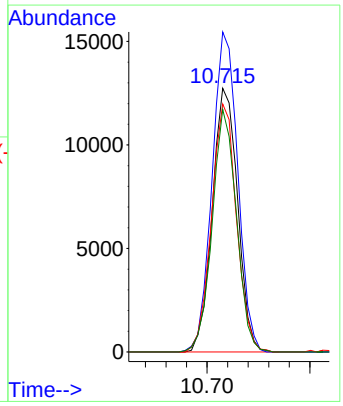
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

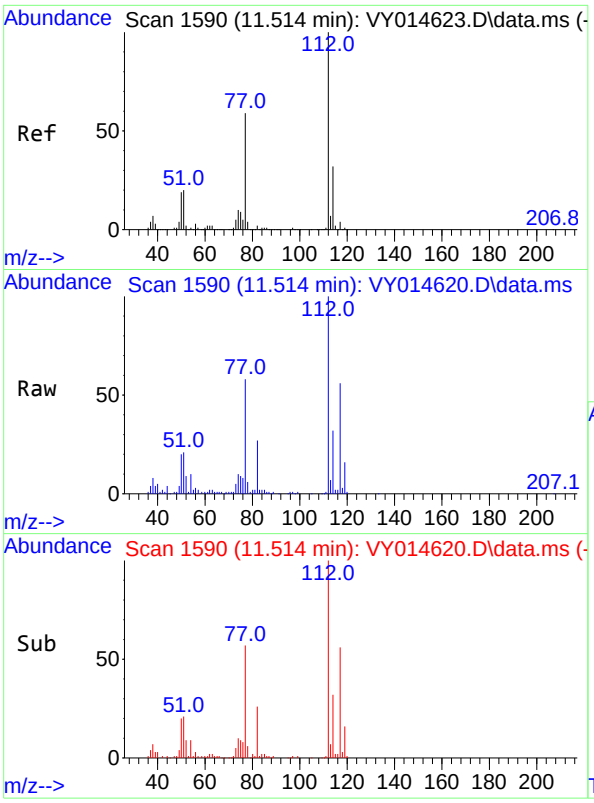


#64
Tetrachloroethene
Concen: 5.328 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:164 Resp: 21701

Ion	Ratio	Lower	Upper
164	100		
166	121.4	103.0	154.6
129	94.1	77.2	115.8
131	92.0	69.6	104.4

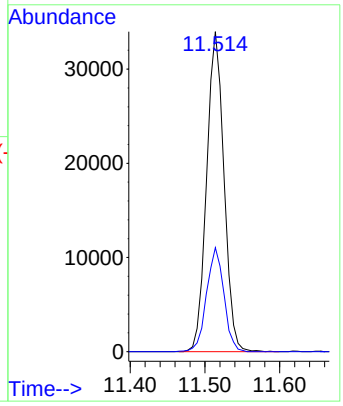




#65
Chlorobenzene
Concen: 5.081 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:112 Resp: 5483

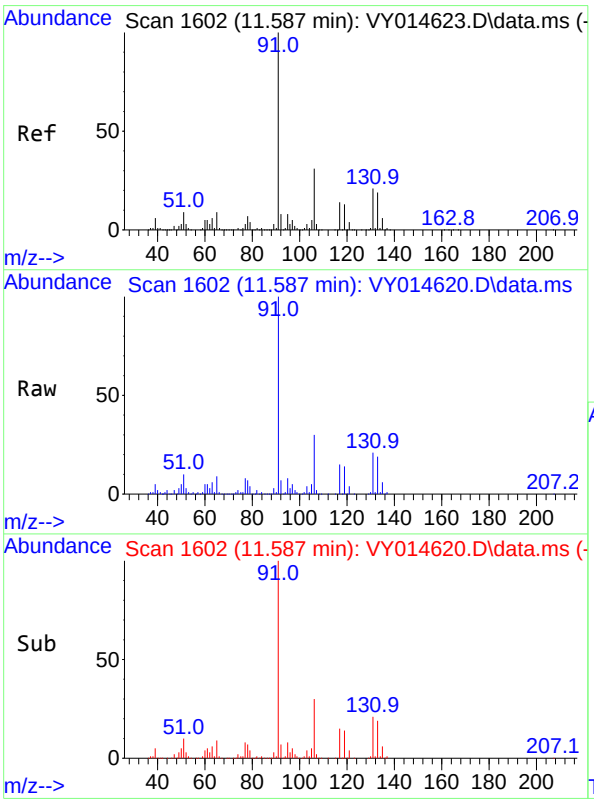
Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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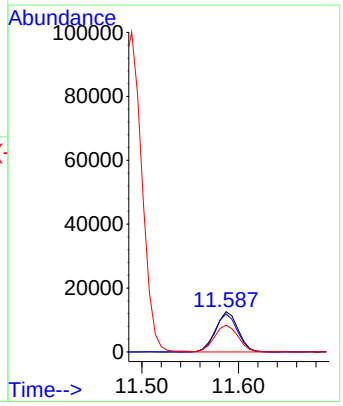
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

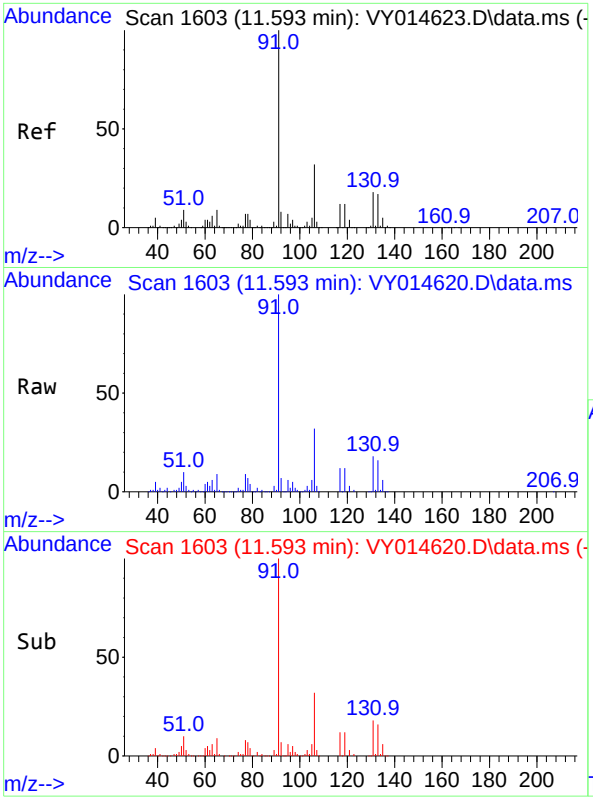


#66
1,1,1,2-Tetrachloroethane
Concen: 5.003 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:131 Resp: 20358

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.5	142.6
119	70.0	31.6	94.7

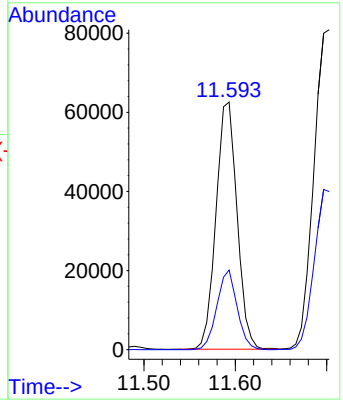




#67
Ethyl Benzene
Concen: 5.147 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 91 Resp: 10028

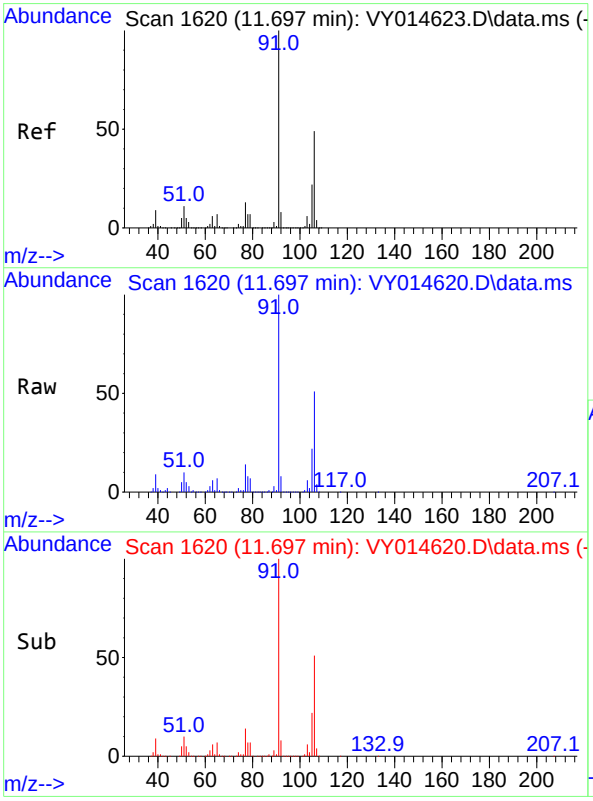
Ion	Ratio	Lower	Upper
91	100		
106	32.2	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

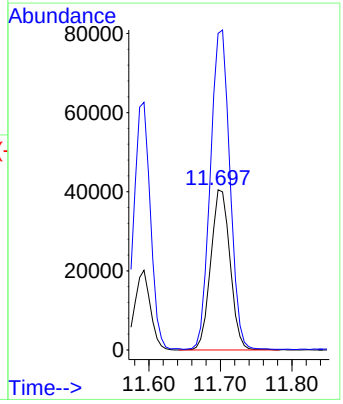
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

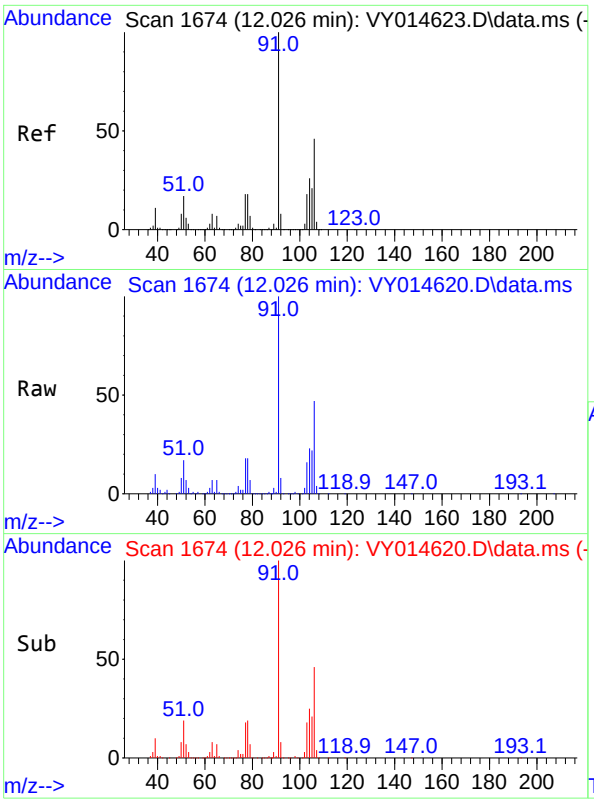


#68
m/p-Xylenes
Concen: 10.217 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:106 Resp: 75998

Ion	Ratio	Lower	Upper
106	100		
91	201.0	166.1	249.1





#69
o-Xylene
Concen: 5.172 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

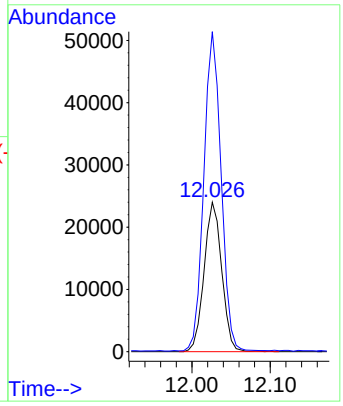
Tgt Ion:106 Resp: 3746

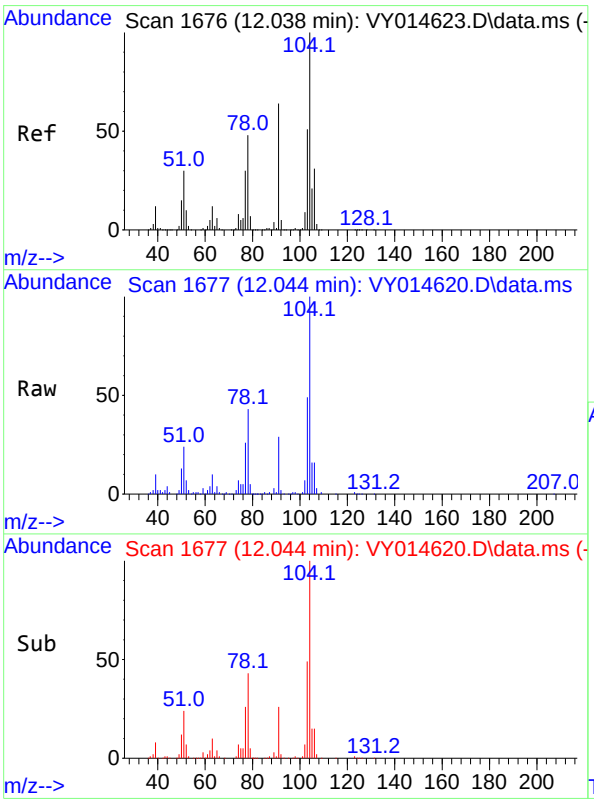
Ion	Ratio	Lower	Upper
106	100		
91	209.3	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

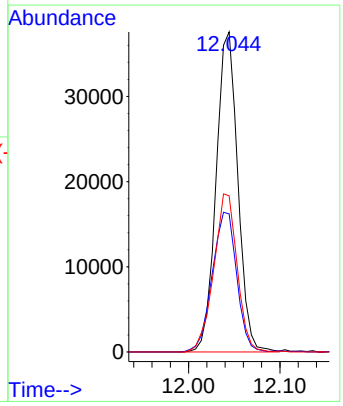


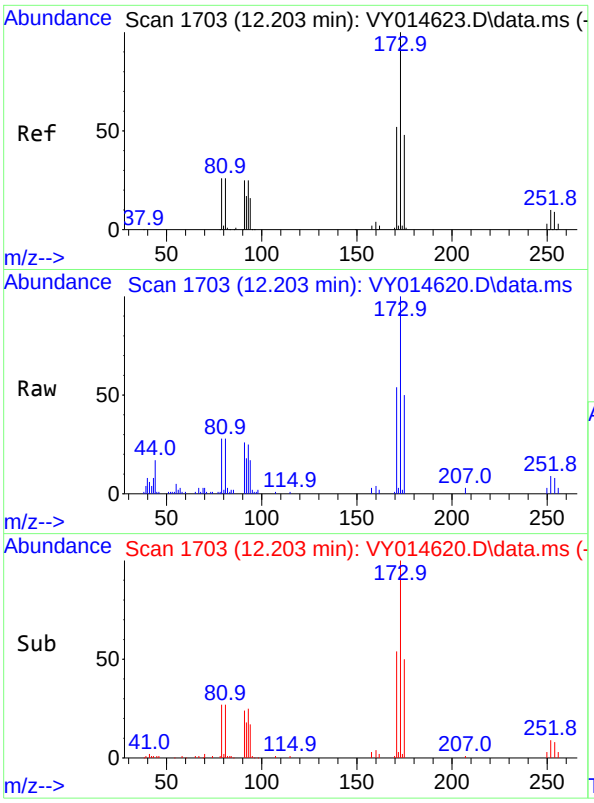


#70
Styrene
Concen: 5.081 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:104 Resp: 62041

Ion	Ratio	Lower	Upper
104	100		
78	49.3	41.5	62.3
103	53.4	44.6	67.0





#71
Bromoform
Concen: 4.779 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

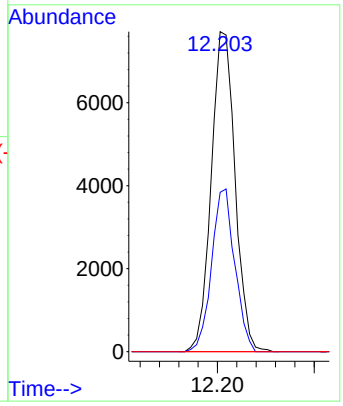
Tgt Ion:173 Resp: 1318

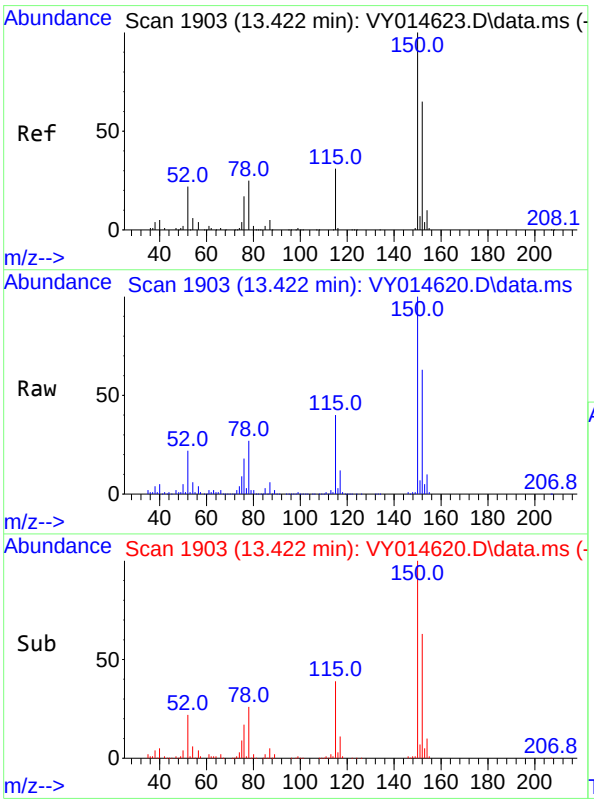
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.6	73.8
254	0.0	0.2	0.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

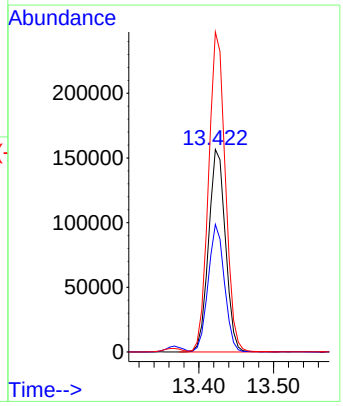


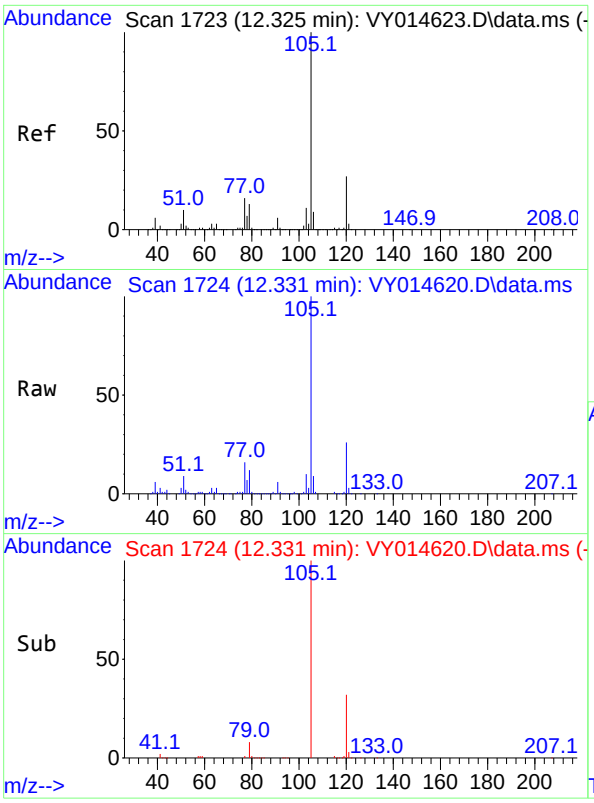


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:152 Resp: 244875

Ion	Ratio	Lower	Upper
152	100		
115	60.8	28.8	86.5
150	157.2	0.0	348.8

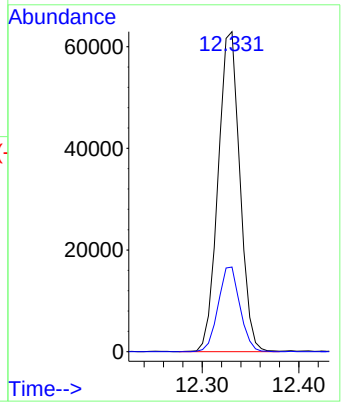




#73
Isopropylbenzene
Concen: 5.122 ug/l
RT: 12.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:105 Resp: 9821

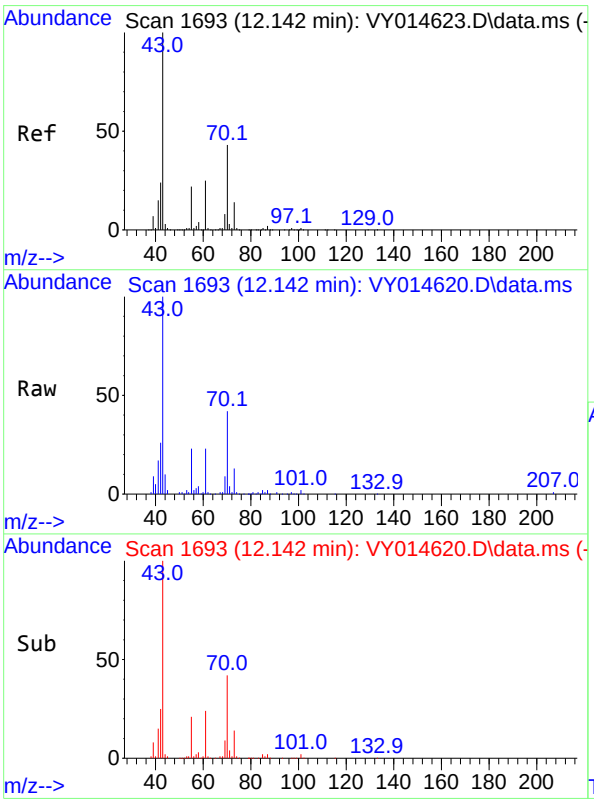
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

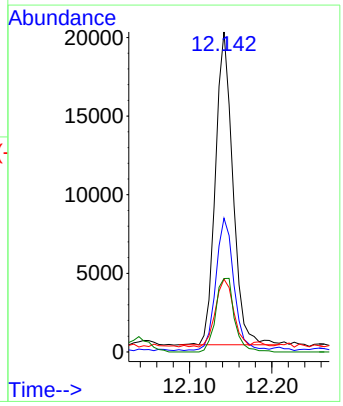
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

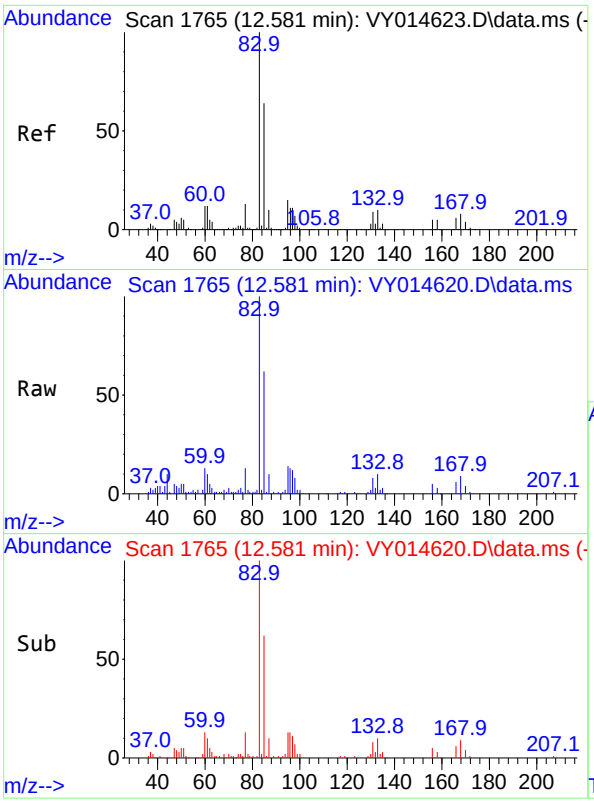


#74
N-amyl acetate
Concen: 4.562 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 43 Resp: 29298

Ion	Ratio	Lower	Upper
43	100		
70	43.7	29.7	44.5
55	22.6	18.3	27.5
61	25.3	17.5	26.3

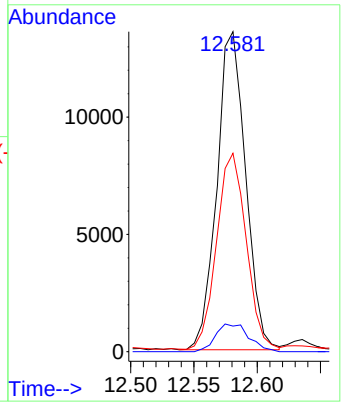




#75
1,1,2,2-Tetrachloroethane
Concen: 4.904 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 83 Resp: 2144

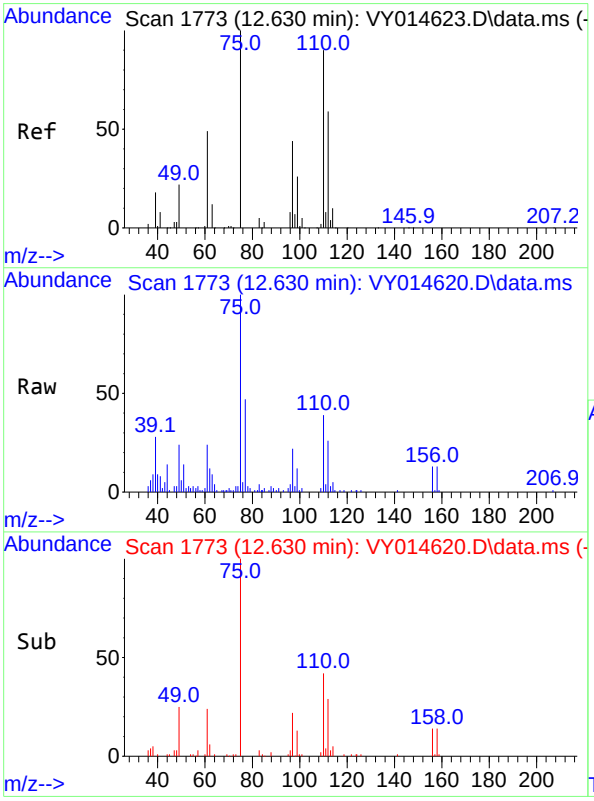
Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.4	16.2
85	63.2	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

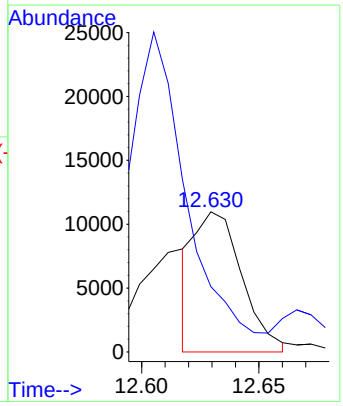
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

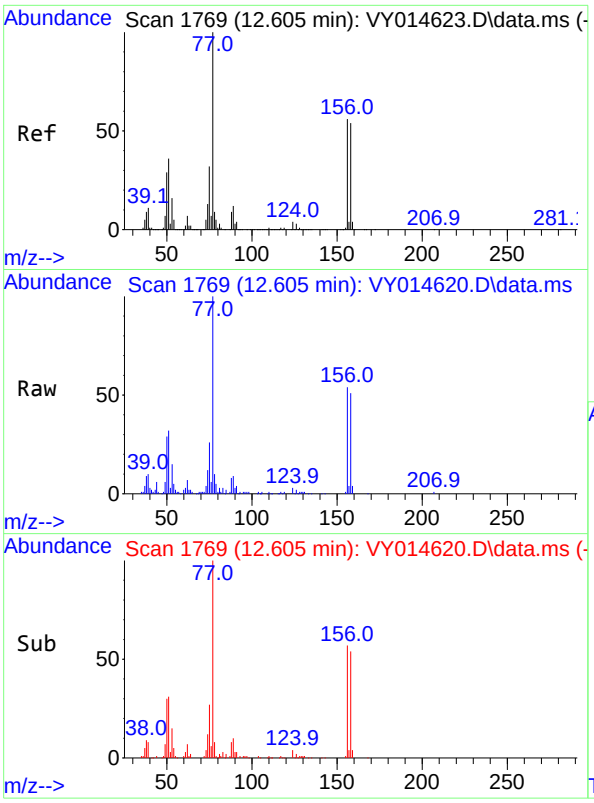


#76
1,2,3-Trichloropropane
Concen: 4.960 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 15542

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

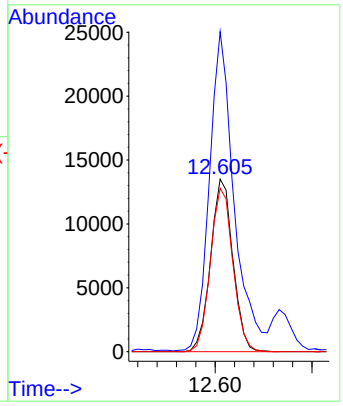




#77
Bromobenzene
Concen: 4.925 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:156 Resp: 2155

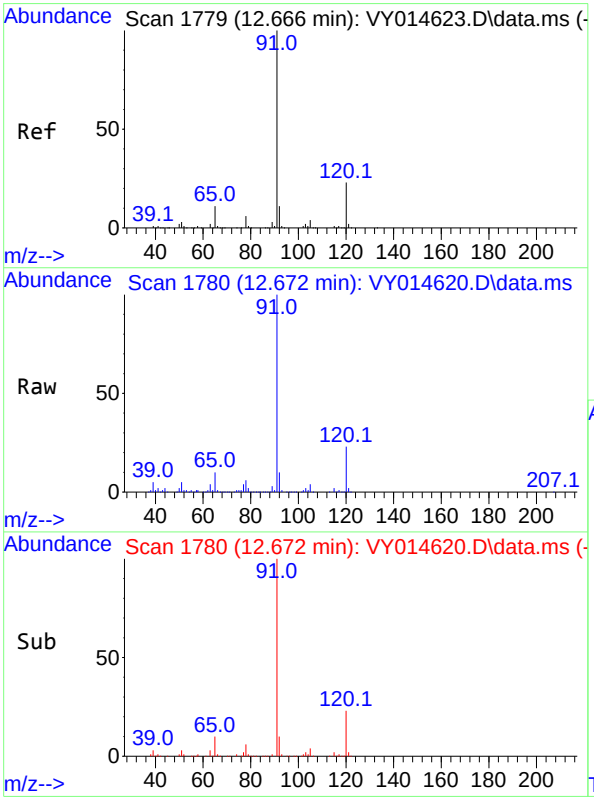
Ion	Ratio	Lower	Upper
156	100		
77	204.9	92.8	278.6
158	95.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

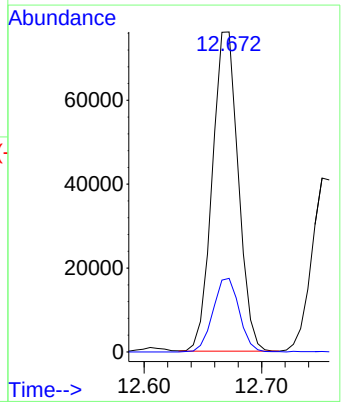
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

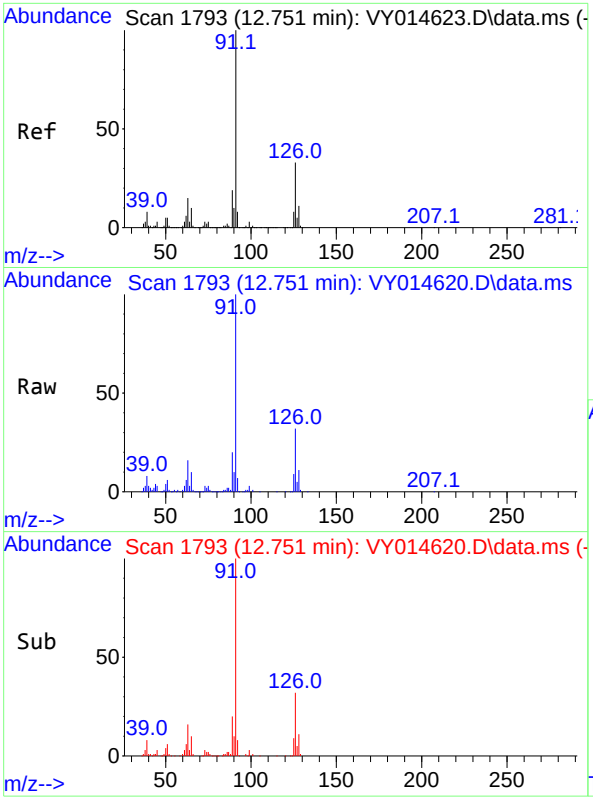


#78
n-propylbenzene
Concen: 5.060 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 91 Resp: 116920

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4

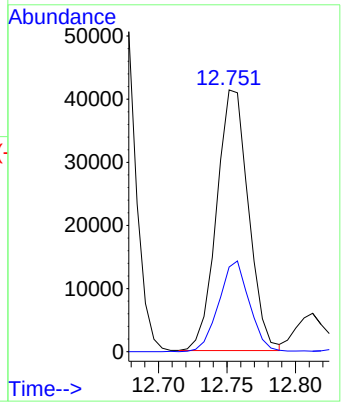




#79
2-Chlorotoluene
Concen: 5.027 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 91 Resp: 6689

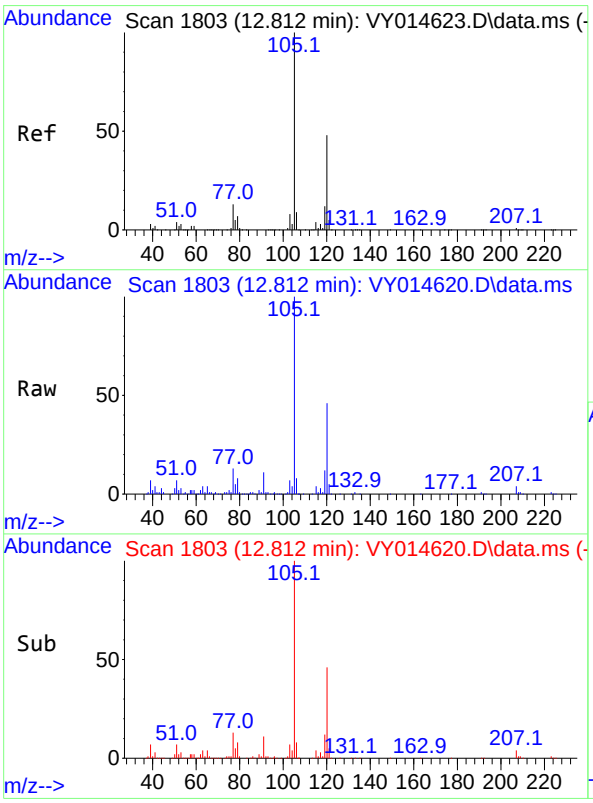
Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.3	51.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

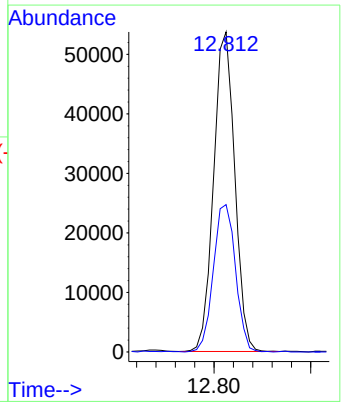
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

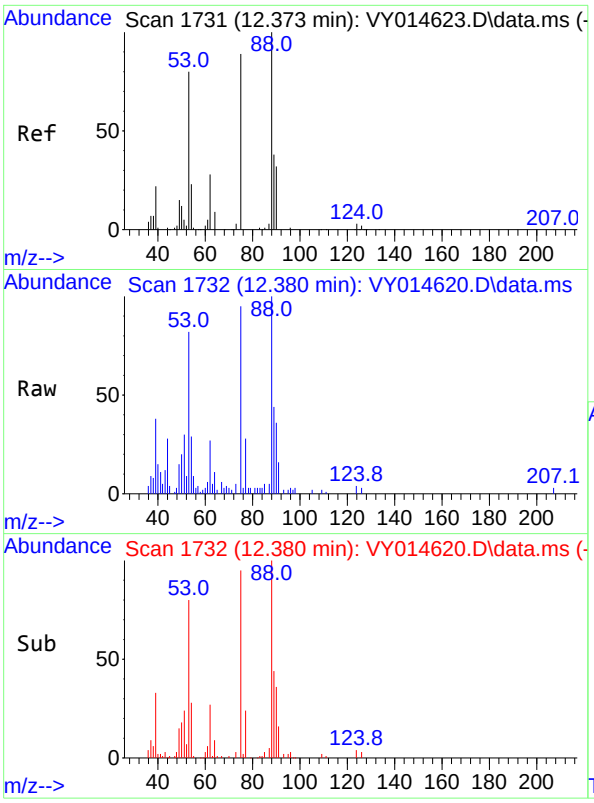


#80
1,3,5-Trimethylbenzene
Concen: 5.075 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:105 Resp: 81264

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.9	71.7

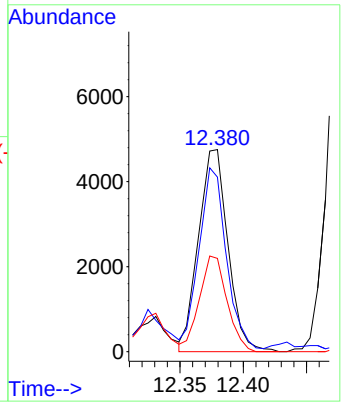




#81
trans-1,4-Dichloro-2-butene
Concen: 4.825 ug/l
RT: 12.380 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 770

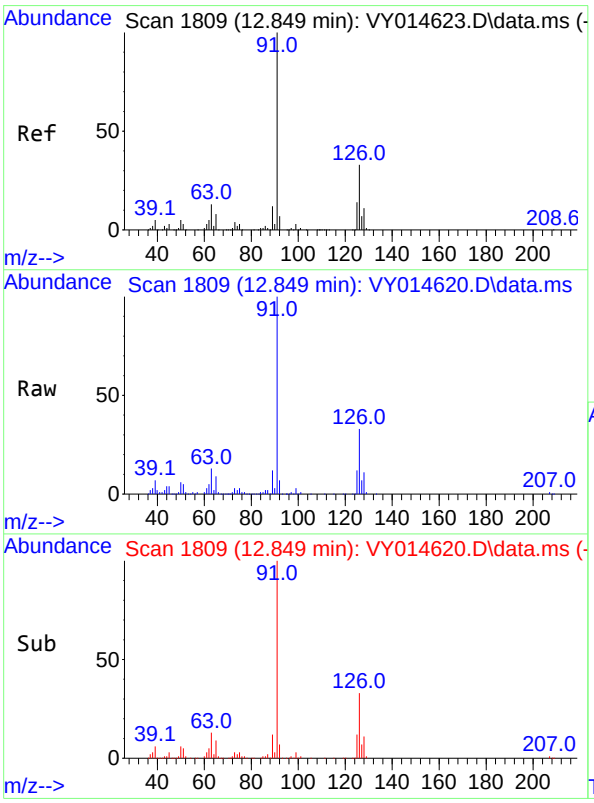
Ion	Ratio	Lower	Upper
75	100		
53	82.3	77.8	116.8
89	44.6	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

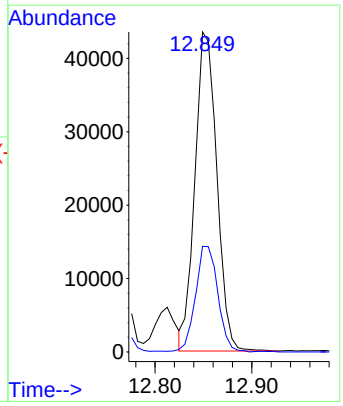
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

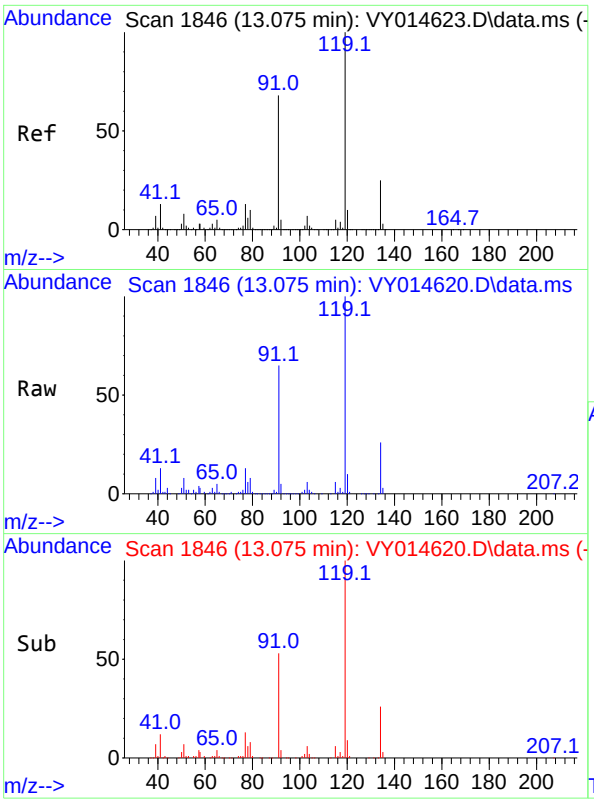


#82
4-Chlorotoluene
Concen: 4.994 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 91 Resp: 68453

Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.2	51.6

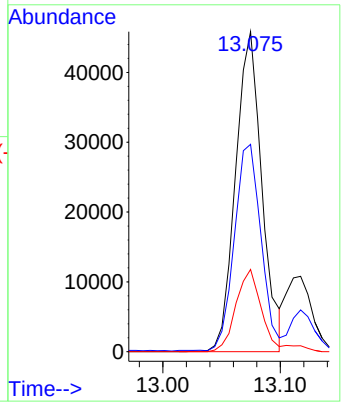




#83
tert-Butylbenzene
Concen: 5.028 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:119 Resp: 7142

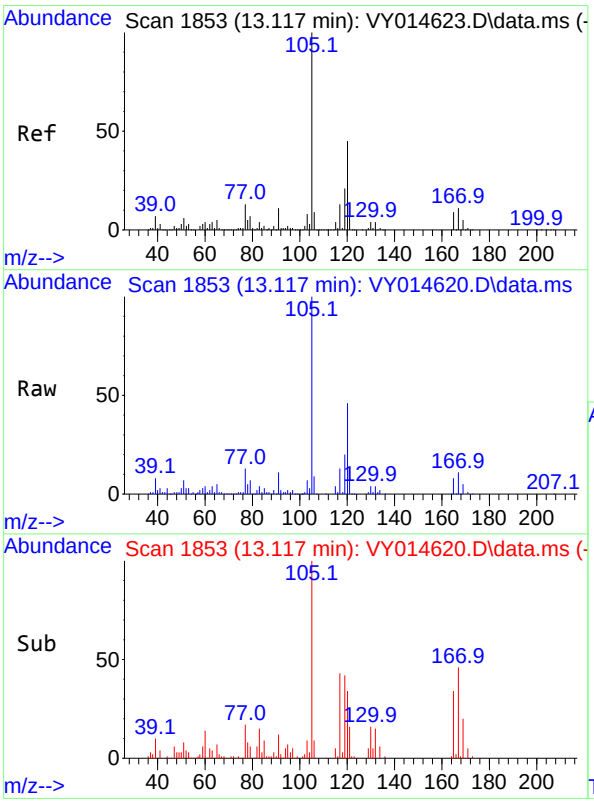
Ion	Ratio	Lower	Upper
119	100		
91	65.0	32.9	98.6
134	26.1	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

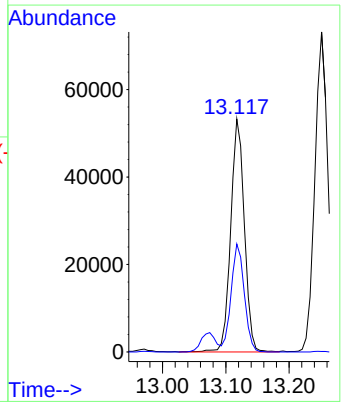
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

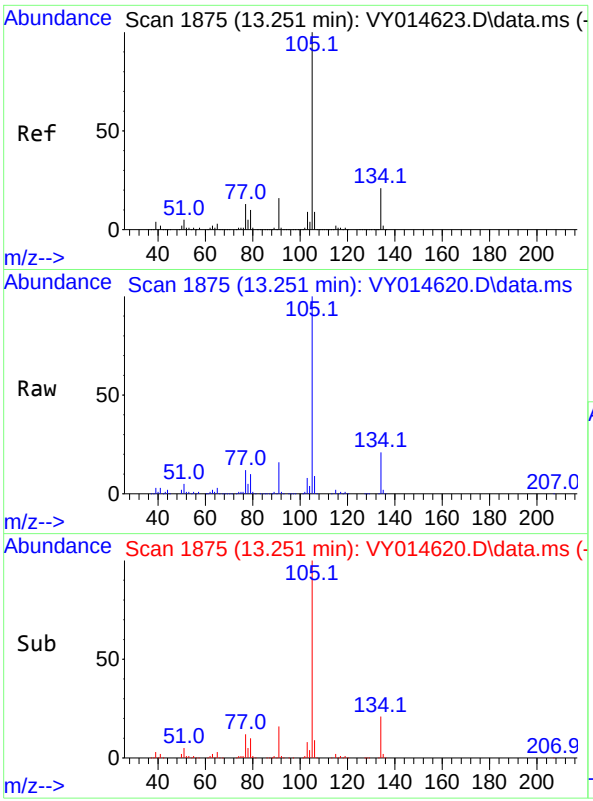


#84
1,2,4-Trimethylbenzene
Concen: 5.096 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:105 Resp: 80086

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.2	66.6

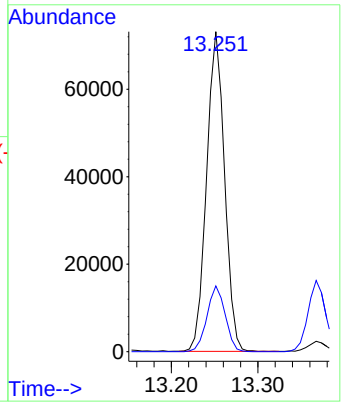




#85
sec-Butylbenzene
Concen: 5.061 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:105 Resp: 10544

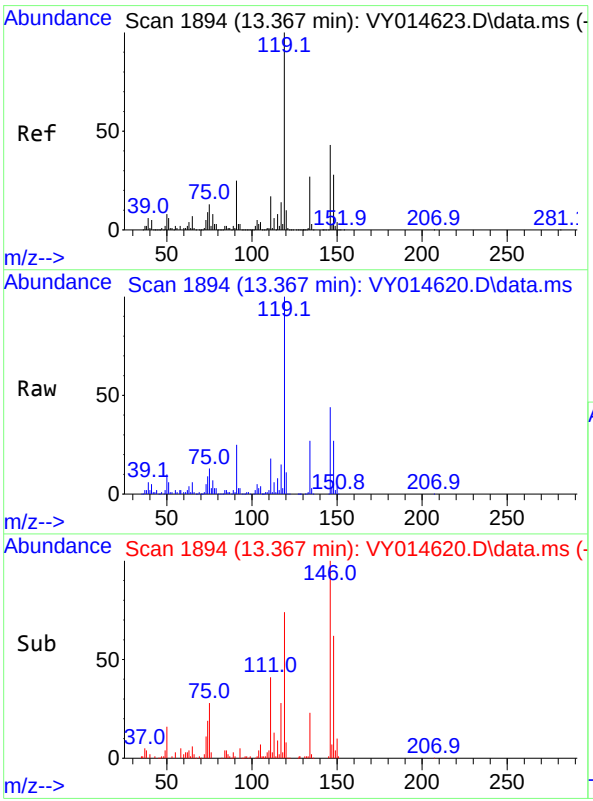
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

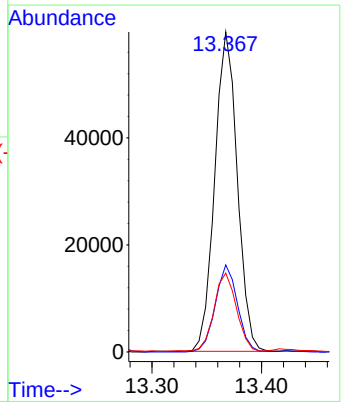
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

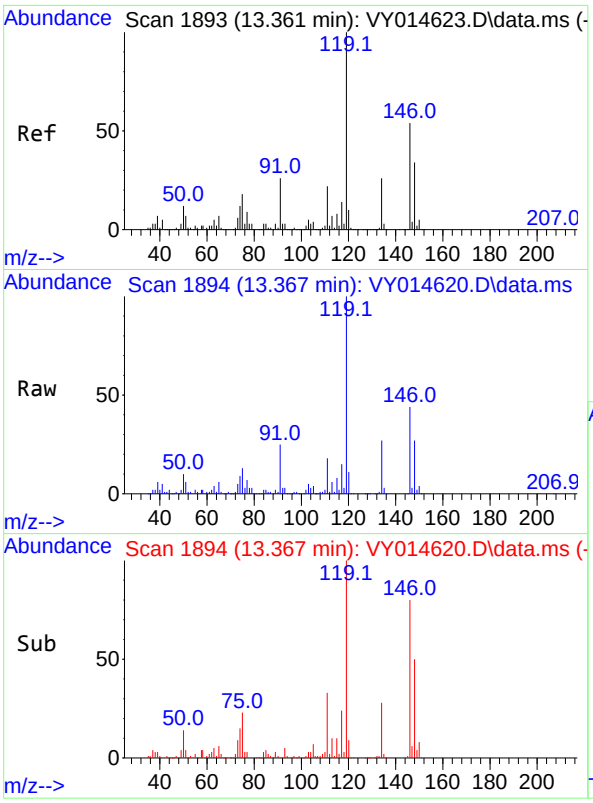


#86
p-Isopropyltoluene
Concen: 5.013 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:119 Resp: 85279

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.3	39.8
91	24.5	12.4	37.4

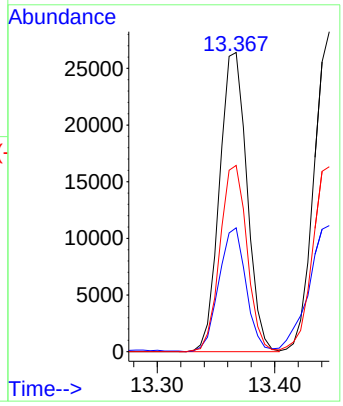




#87
1,3-Dichlorobenzene
Concen: 5.029 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:146 Resp: 4284

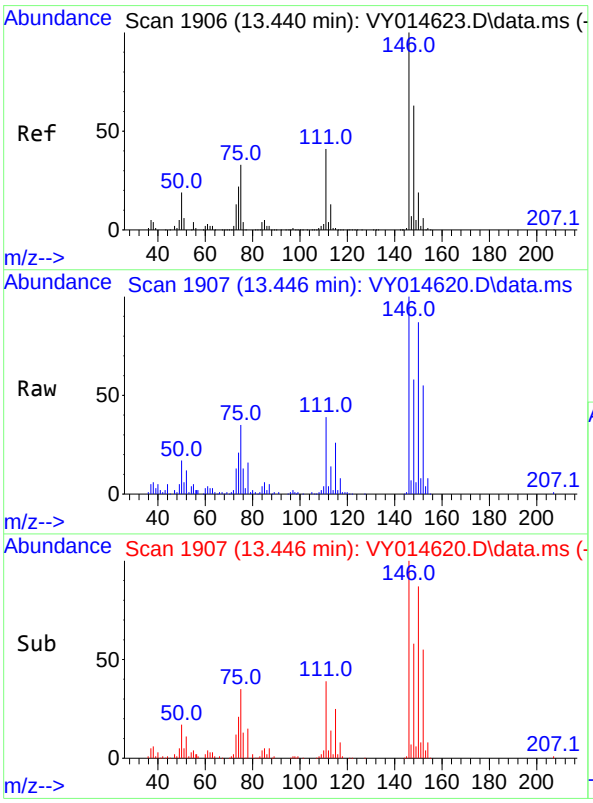
Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.4	58.2
148	61.4	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

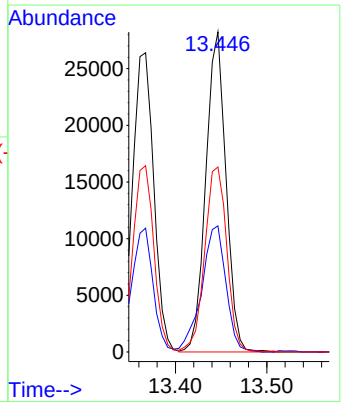
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

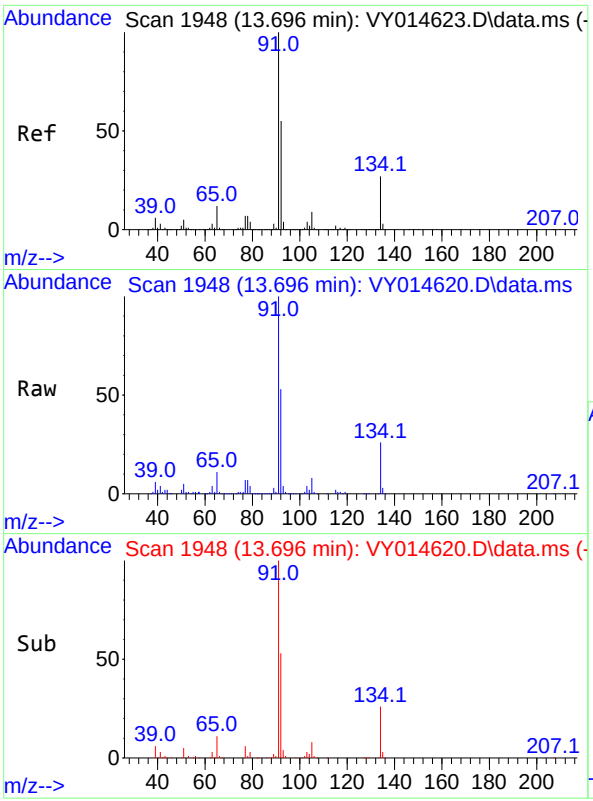


#88
1,4-Dichlorobenzene
Concen: 5.068 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:146 Resp: 43258

Ion	Ratio	Lower	Upper
146	100		
111	47.5	18.9	56.7
148	63.2	32.1	96.5

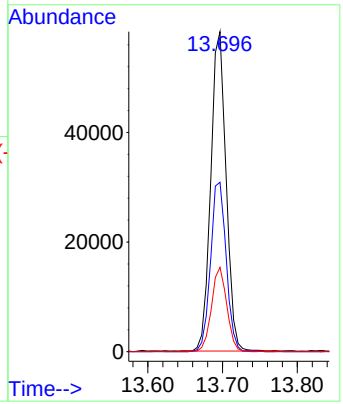




#89
n-Butylbenzene
Concen: 5.013 ug/l
RT: 13.696 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 91 Resp: 8297

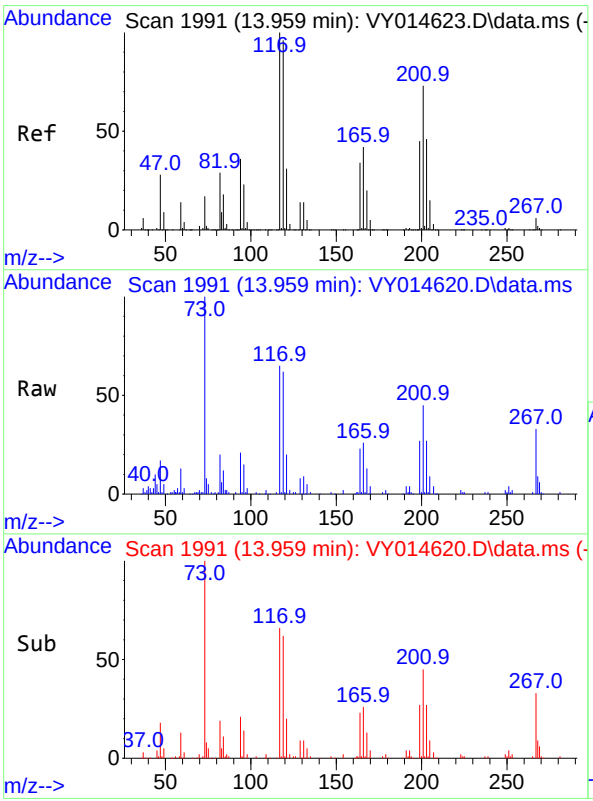
Ion	Ratio	Lower	Upper
91	100		
92	54.3	25.4	76.0
134	26.3	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

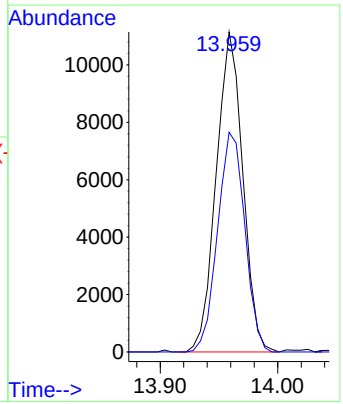
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

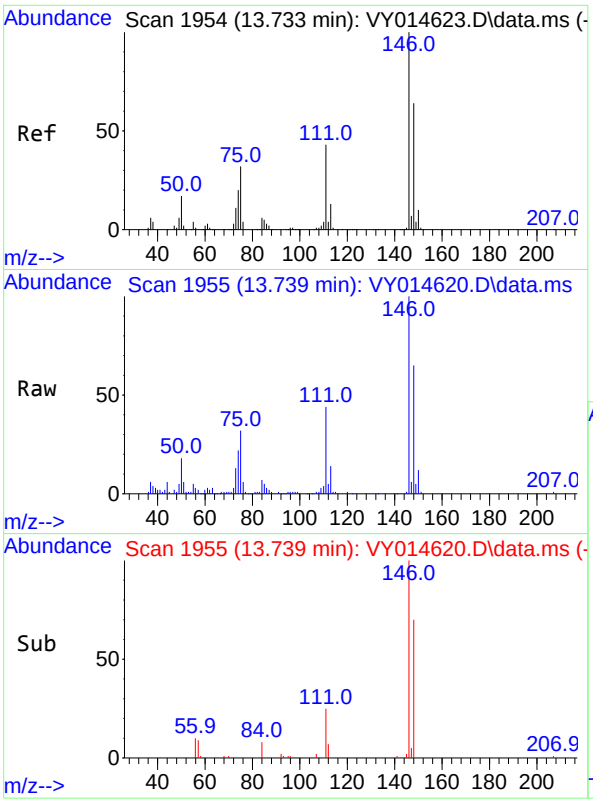


#90
Hexachloroethane
Concen: 5.014 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:117 Resp: 17520

Ion	Ratio	Lower	Upper
117	100		
201	70.4	41.6	124.8

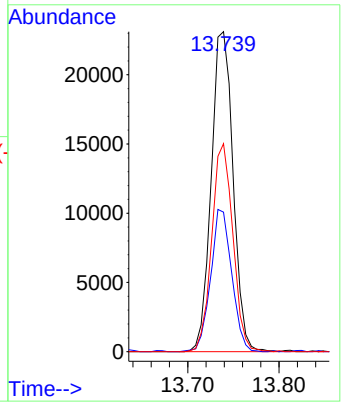




#91
1,2-Dichlorobenzene
Concen: 4.915 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:146 Resp: 3835

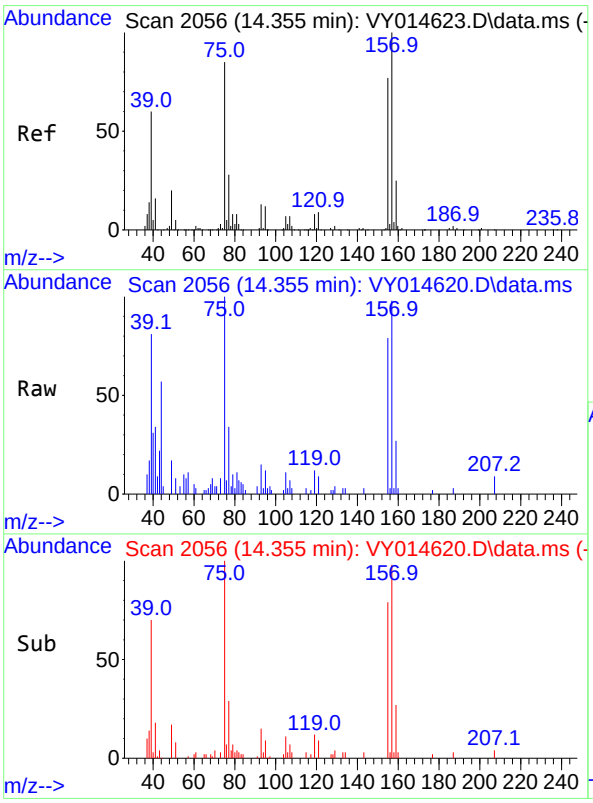
Ion	Ratio	Lower	Upper
146	100		
111	42.9	19.7	59.0
148	63.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

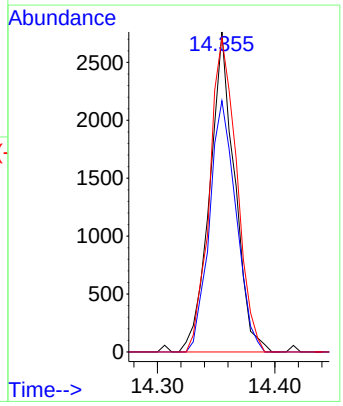
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

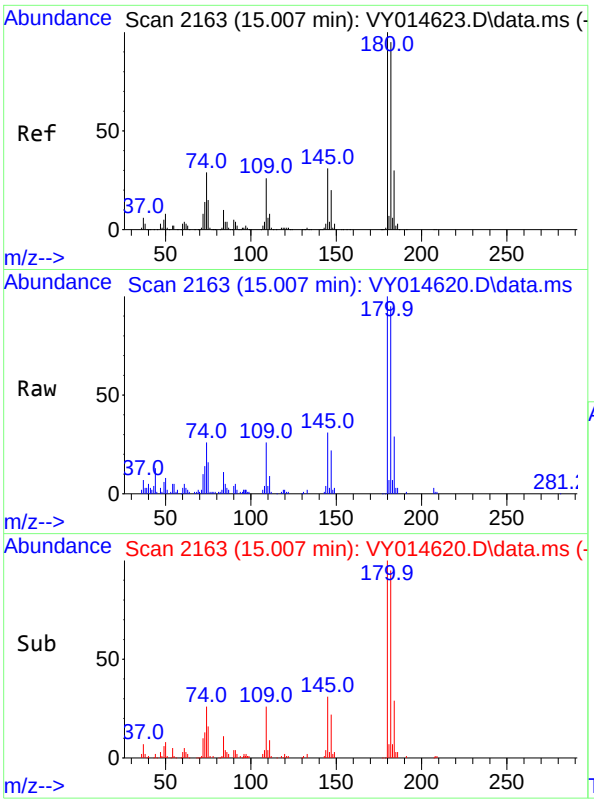


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.870 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion: 75 Resp: 4072

Ion	Ratio	Lower	Upper
75	100		
155	83.9	41.5	124.6
157	107.0	51.8	155.5

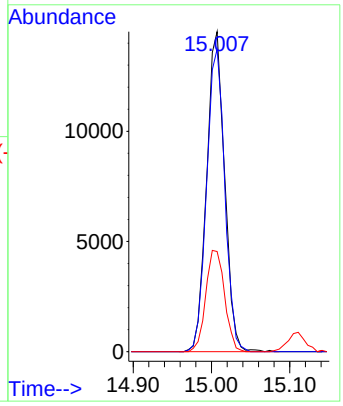




#93
1,2,4-Trichlorobenzene
Concen: 4.660 ug/l
RT: 15.007 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:180 Resp: 2308

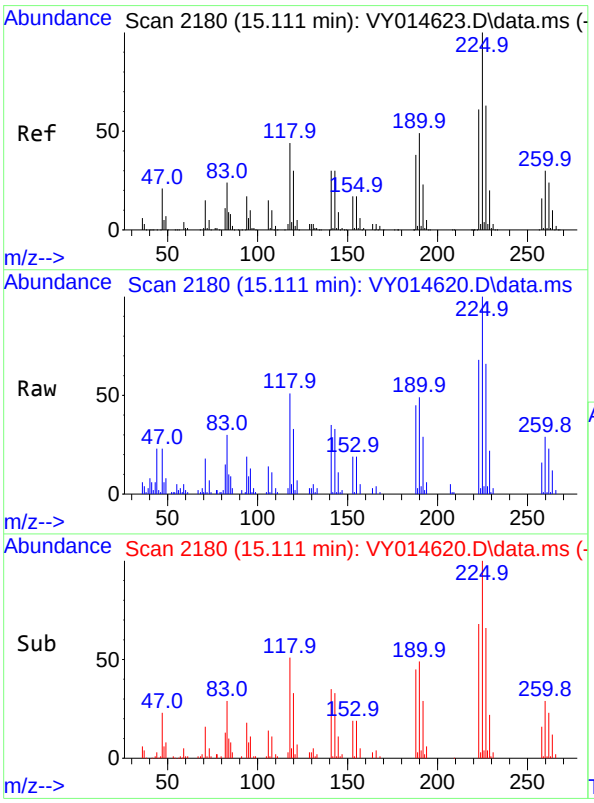
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.0	141.2
145	33.2	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

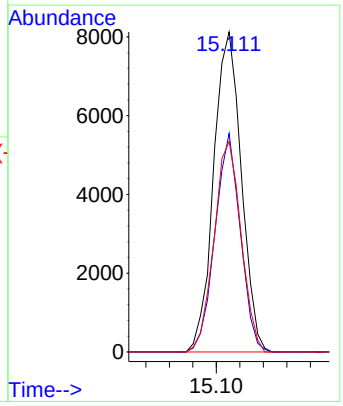
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

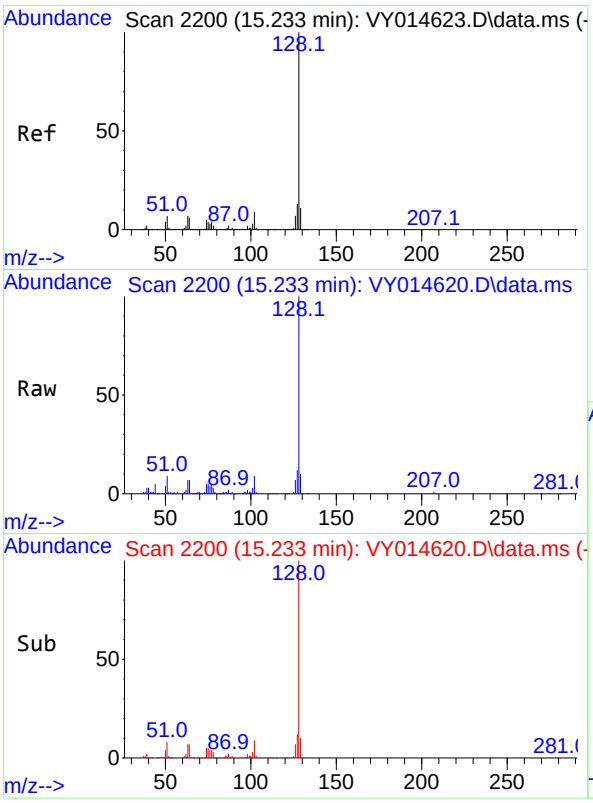


#94
Hexachlorobutadiene
Concen: 4.882 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:225 Resp: 13291

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.9	95.9
227	64.2	33.0	98.9

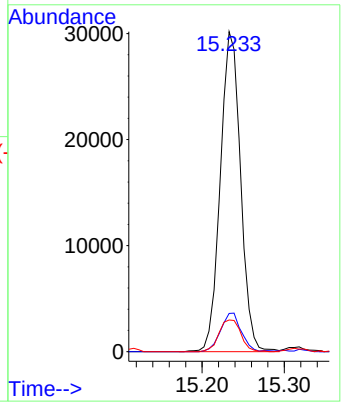




#95
Naphthalene
Concen: 4.483 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:128 Resp: 5174

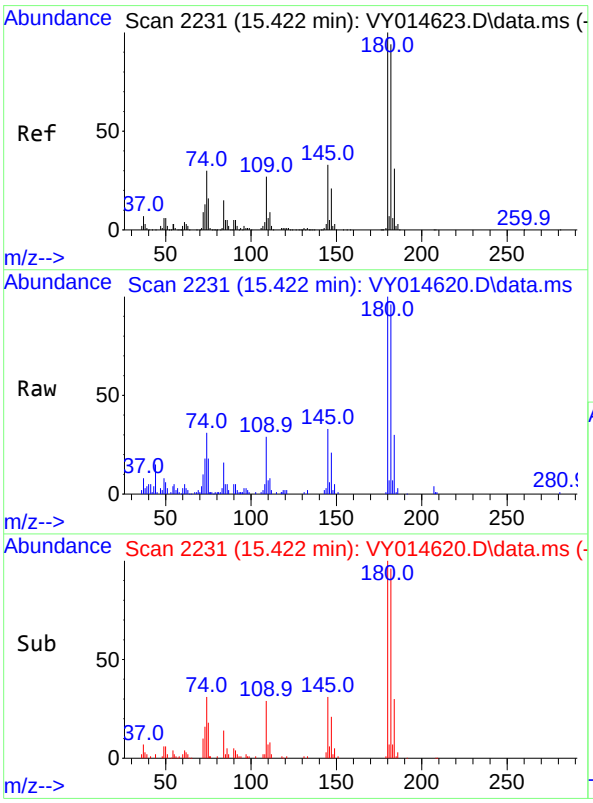
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.8	16.2
129	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

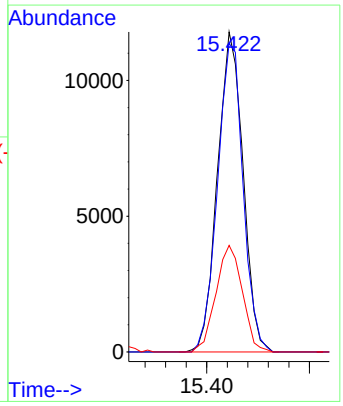
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 4.607 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014620.D
Acq: 13 Jul 2023 09:05

Tgt Ion:180 Resp: 20285

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.3	141.8
145	34.5	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014621.D
Acq On : 13 Jul 2023 09:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 01:59:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.783	168	360430	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.685	114	596835	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.490	117	519072	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	247152	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.136	65	38478	9.368	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	18.740%#			
35) Dibromofluoromethane	7.710	113	36588	9.630	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.260%#			
50) Toluene-d8	10.179	98	137153	9.792	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.580%#			
62) 4-Bromofluorobenzene	12.477	95	52548	9.784	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.560%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.900	85	32395	11.032	ug/l		98
3) Chloromethane	2.107	50	33684	10.205	ug/l		96
4) Vinyl Chloride	2.247	62	37388	10.135	ug/l		95
5) Bromomethane	2.644	94	24420	10.017	ug/l		100
6) Chloroethane	2.784	64	23022	9.991	ug/l		96
7) Trichlorofluoromethane	3.113	101	61176	9.874	ug/l		100
8) Diethyl Ether	3.521	74	21795	9.454	ug/l		88
9) 1,1,2-Trichlorotrifluo...	3.887	101	36431	9.593	ug/l		94
10) Methyl Iodide	4.082	142	26512	8.643	ug/l		98
11) Tert butyl alcohol	4.930	59	42685	37.986	ug/l	#	93
12) 1,1-Dichloroethene	3.863	96	34612	9.752	ug/l		93
13) Acrolein	3.729	56	18191	42.375	ug/l		98
14) Allyl chloride	4.472	41	59284	9.407	ug/l		95
15) Acrylonitrile	5.155	53	55381	43.565	ug/l		99
16) Acetone	3.942	43	51885	39.865	ug/l		91
17) Carbon Disulfide	4.186	76	102977	10.134	ug/l		99
18) Methyl Acetate	4.472	43	44164	8.842	ug/l		91
19) Methyl tert-butyl Ether	5.210	73	105685	9.166	ug/l		99
20) Methylene Chloride	4.710	84	44706	6.936	ug/l		92
21) trans-1,2-Dichloroethene	5.210	96	39375	9.776	ug/l		98
22) Diisopropyl ether	6.112	45	119074	9.294	ug/l		92
23) Vinyl Acetate	6.051	43	342208	44.632	ug/l	#	94
24) 1,1-Dichloroethane	6.009	63	68929	9.402	ug/l		97
25) 2-Butanone	6.978	43	80508	42.281	ug/l		100
26) 2,2-Dichloropropane	6.972	77	66485	9.516	ug/l		99
27) cis-1,2-Dichloroethene	6.978	96	44291	9.447	ug/l		99
28) Bromochloromethane	7.326	49	34457	10.913	ug/l		98
29) Tetrahydrofuran	7.344	42	51019	43.514	ug/l		94
30) Chloroform	7.502	83	70240	9.291	ug/l		93
31) Cyclohexane	7.777	56	69097	10.134	ug/l	#	87
32) 1,1,1-Trichloroethane	7.697	97	63435	9.323	ug/l		98
36) 1,1-Dichloropropene	7.917	75	54266	9.551	ug/l		99
37) Ethyl Acetate	7.070	43	34198	8.742	ug/l	#	93
38) Carbon Tetrachloride	7.893	117	56429	9.395	ug/l		99
39) Methylcyclohexane	9.179	83	71681	9.684	ug/l		97
40) Benzene	8.155	78	152456	9.435	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014621.D
Acq On : 13 Jul 2023 09:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 01:59:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.301	41	16180	7.821 ug/l #	91
42) 1,2-Dichloroethane	8.234	62	47177	9.219 ug/l	91
43) Isopropyl Acetate	8.271	43	66835	8.969 ug/l	96
44) Trichloroethene	8.935	130	42773	9.461 ug/l	97
45) 1,2-Dichloropropane	9.209	63	39557	9.375 ug/l	98
46) Dibromomethane	9.301	93	23598	9.219 ug/l	95
47) Bromodichloromethane	9.490	83	55999	9.282 ug/l	97
48) Methyl methacrylate	9.289	41	30353	9.052 ug/l	92
49) 1,4-Dioxane	9.301	88	6608	158.315 ug/l #	46
51) 4-Methyl-2-Pentanone	10.069	43	171791	43.908 ug/l	94
52) Toluene	10.240	92	98292	9.506 ug/l	92
53) t-1,3-Dichloropropene	10.459	75	60794	9.212 ug/l	100
54) cis-1,3-Dichloropropene	9.929	75	67177	9.361 ug/l	93
55) 1,1,2-Trichloroethane	10.642	97	32568	9.134 ug/l	98
56) Ethyl methacrylate	10.508	69	47950	8.808 ug/l	93
57) 1,3-Dichloropropane	10.788	76	56283	9.152 ug/l	97
58) 2-Chloroethyl Vinyl ether	9.776	63	124725	49.168 ug/l	95
59) 2-Hexanone	10.831	43	122597	42.968 ug/l	91
60) Dibromochloromethane	10.983	129	39992	9.148 ug/l	99
61) 1,2-Dibromoethane	11.087	107	32574	9.157 ug/l	99
64) Tetrachloroethene	10.715	164	40964	9.812 ug/l	99
65) Chlorobenzene	11.514	112	103950	9.398 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.587	131	38649	9.267 ug/l	97
67) Ethyl Benzene	11.593	91	189686	9.498 ug/l	98
68) m/p-Xylenes	11.703	106	145226	19.050 ug/l	96
69) o-Xylene	12.026	106	69812	9.402 ug/l	99
70) Styrene	12.044	104	116487	9.308 ug/l	98
71) Bromoform	12.209	173	25270	8.939 ug/l #	100
73) Isopropylbenzene	12.325	105	185423	9.582 ug/l	100
74) N-amyl acetate	12.142	43	57952	8.941 ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.581	83	40003	9.065 ug/l	100
76) 1,2,3-Trichloropropane	12.630	75	29102m	9.201 ug/l	
77) Bromobenzene	12.605	156	41140	9.313 ug/l	93
78) n-propylbenzene	12.666	91	223016	9.563 ug/l	100
79) 2-Chlorotoluene	12.758	91	127211	9.471 ug/l	100
80) 1,3,5-Trimethylbenzene	12.812	105	153741	9.513 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.373	75	13721	8.511 ug/l	95
82) 4-Chlorotoluene	12.855	91	131997	9.542 ug/l	98
83) tert-Butylbenzene	13.075	119	135514	9.452 ug/l	99
84) 1,2,4-Trimethylbenzene	13.117	105	150941	9.517 ug/l	99
85) sec-Butylbenzene	13.251	105	201094	9.562 ug/l	100
86) p-Isopropyltoluene	13.367	119	163449	9.519 ug/l	99
87) 1,3-Dichlorobenzene	13.367	146	80714	9.388 ug/l	98
88) 1,4-Dichlorobenzene	13.446	146	80252	9.315 ug/l	96
89) n-Butylbenzene	13.696	91	157263	9.414 ug/l	95
90) Hexachloroethane	13.959	117	32661	9.260 ug/l	89
91) 1,2-Dichlorobenzene	13.739	146	74273	9.429 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	7247	8.587 ug/l	98
93) 1,2,4-Trichlorobenzene	15.007	180	43695	8.739 ug/l	98
94) Hexachlorobutadiene	15.111	225	25017	9.104 ug/l	98
95) Naphthalene	15.233	128	96718	8.302 ug/l	99
96) 1,2,3-Trichlorobenzene	15.422	180	37957	8.541 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014621.D
Acq On : 13 Jul 2023 09:31
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 01:59:37 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

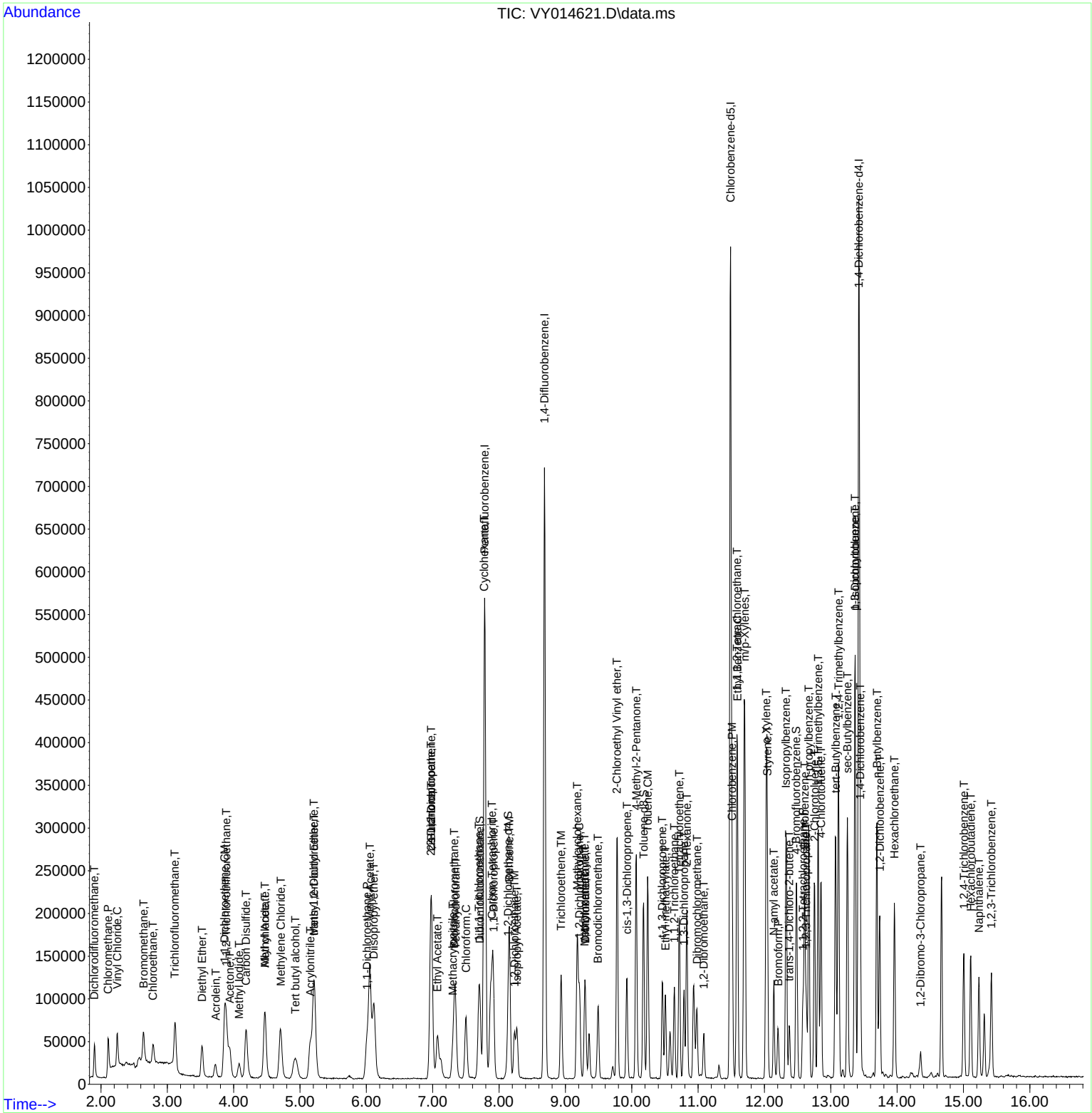
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Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

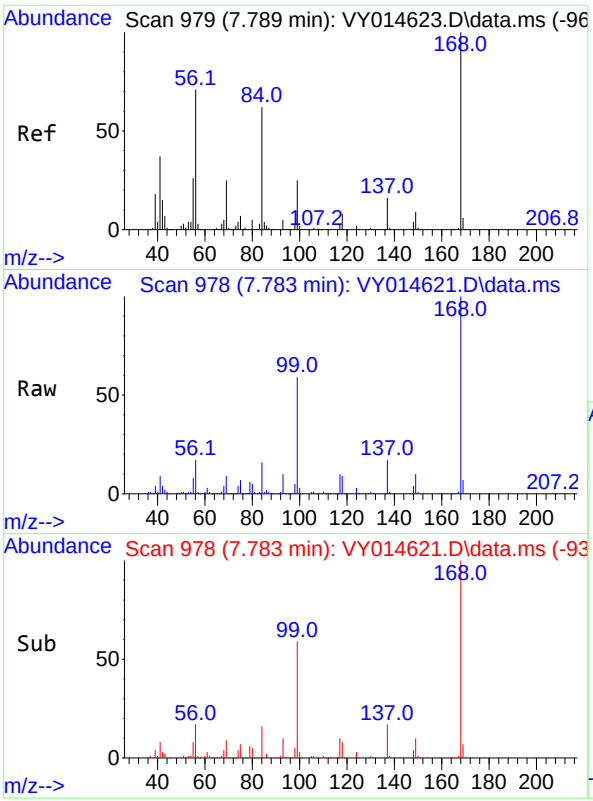
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Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

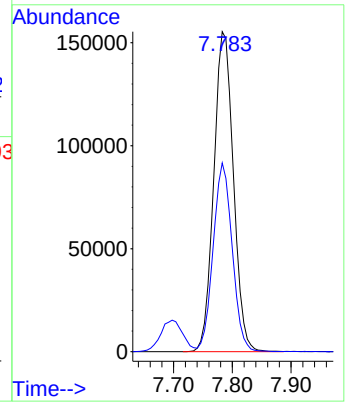




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:168 Resp: 36043

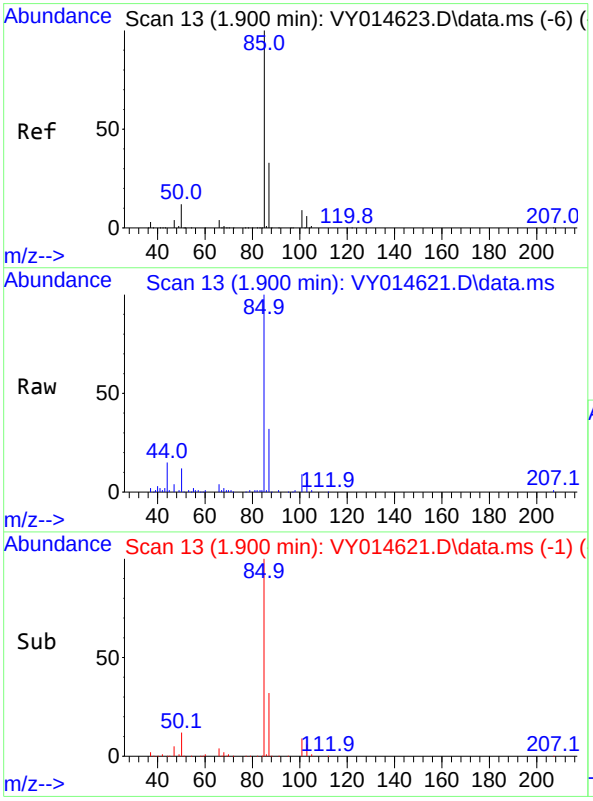
Ion	Ratio	Lower	Upper
168	100		
99	58.9	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

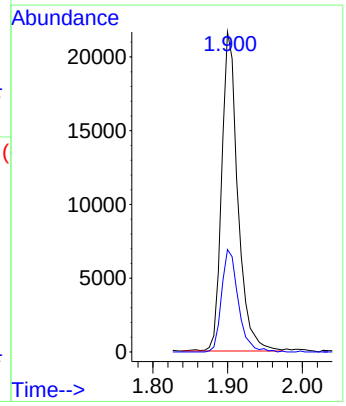
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

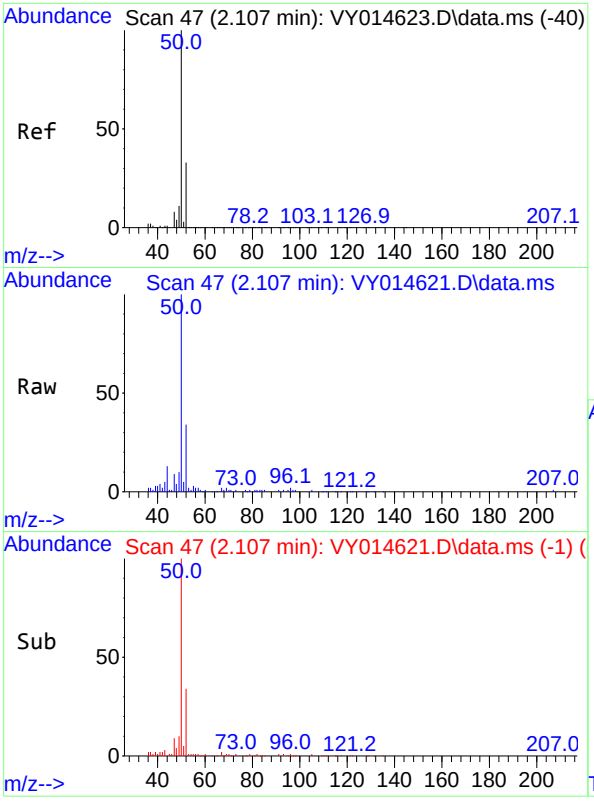


#2
Dichlorodifluoromethane
Concen: 11.032 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 85 Resp: 32395

Ion	Ratio	Lower	Upper
85	100		
87	32.1	15.6	46.8

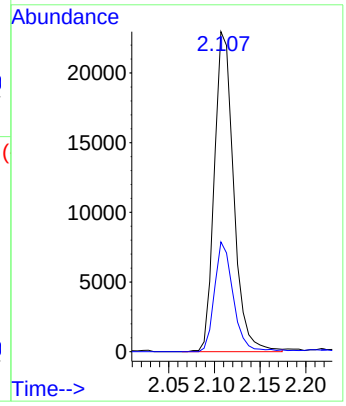




#3
Chloromethane
Concen: 10.205 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 50 Resp: 3368

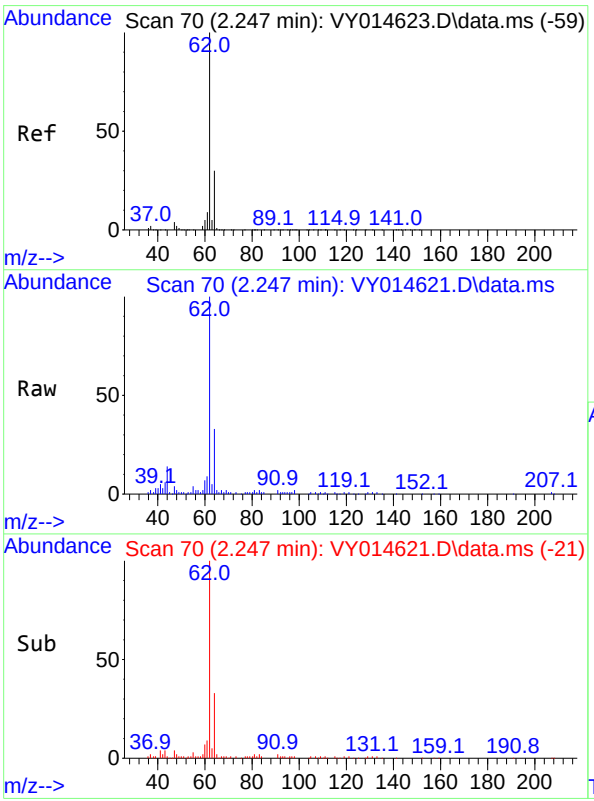
Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

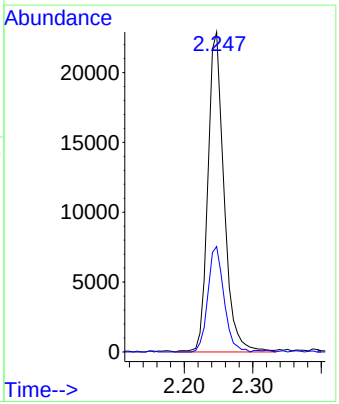
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

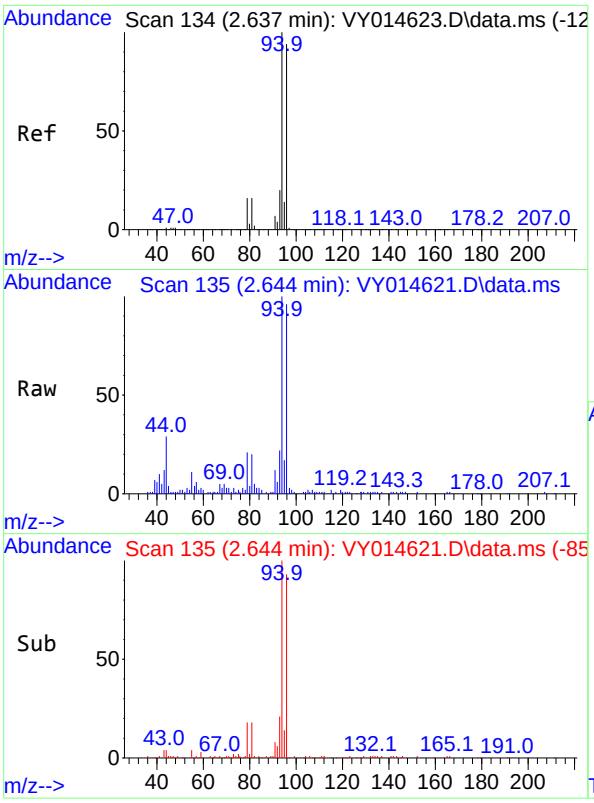


#4
Vinyl Chloride
Concen: 10.135 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 62 Resp: 37388

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.3	36.5

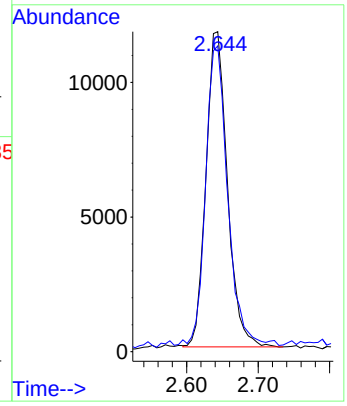




#5
Bromomethane
Concen: 10.017 ug/l
RT: 2.644 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 94 Resp: 2442

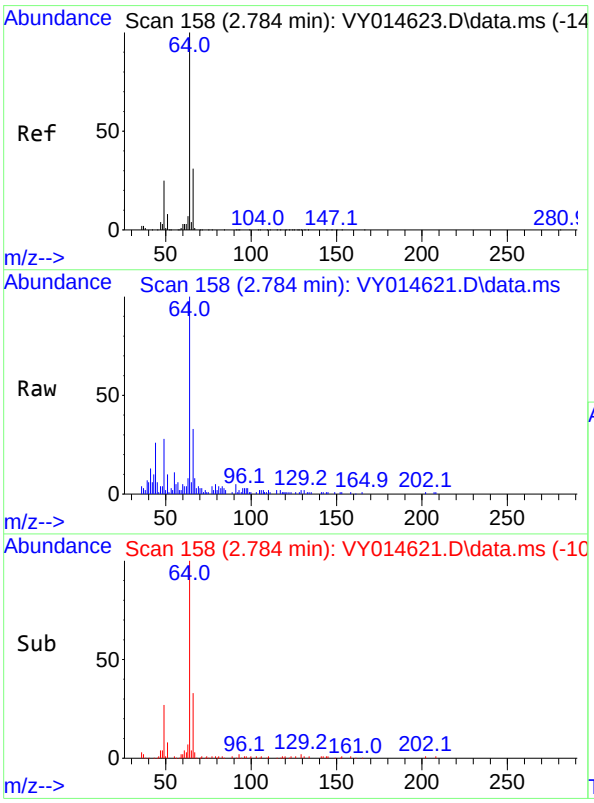
Ion	Ratio	Lower	Upper
94	100		
96	94.8	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

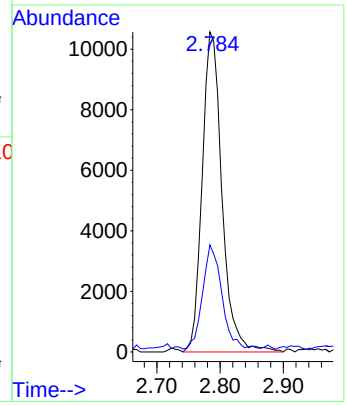
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

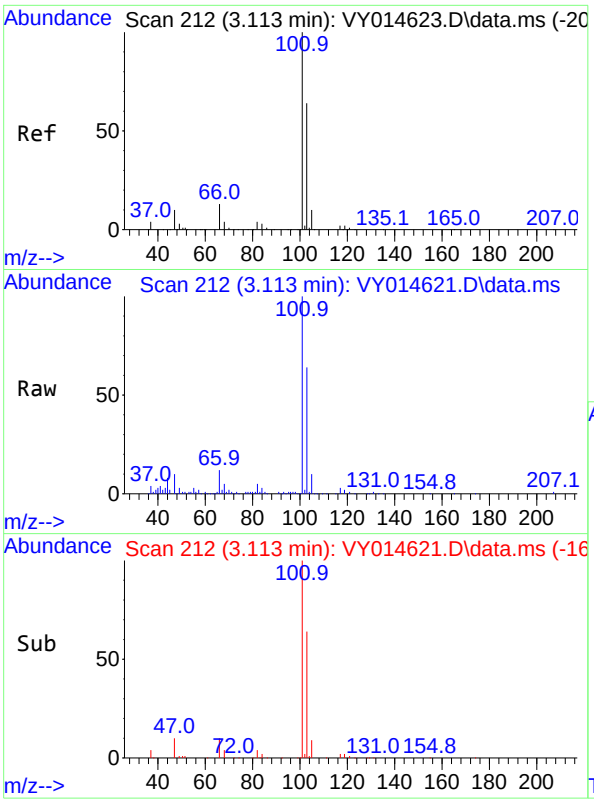


#6
Chloroethane
Concen: 9.991 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 64 Resp: 23022

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.4	36.6





#7
Trichlorofluoromethane
Concen: 9.874 ug/l
RT: 3.113 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

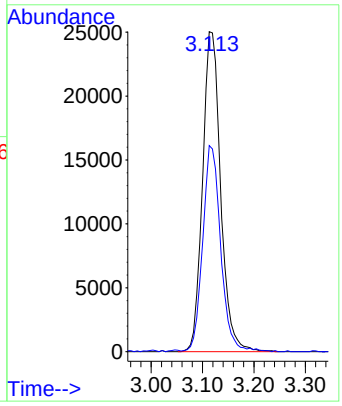
Tgt Ion:101 Resp: 6117

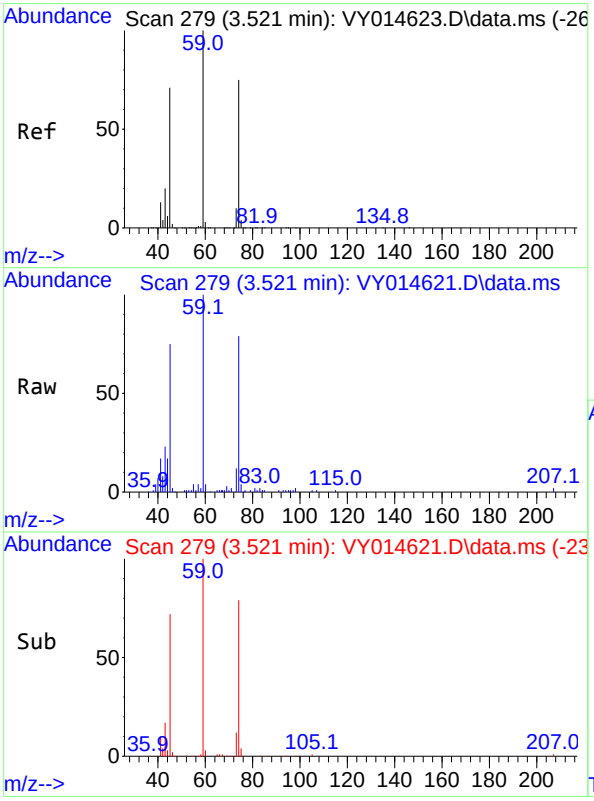
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

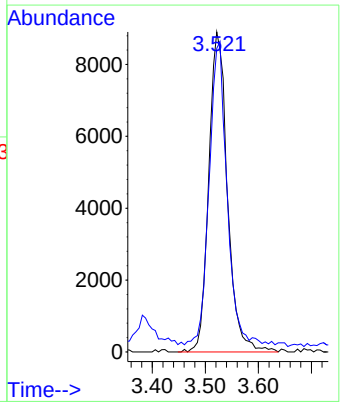


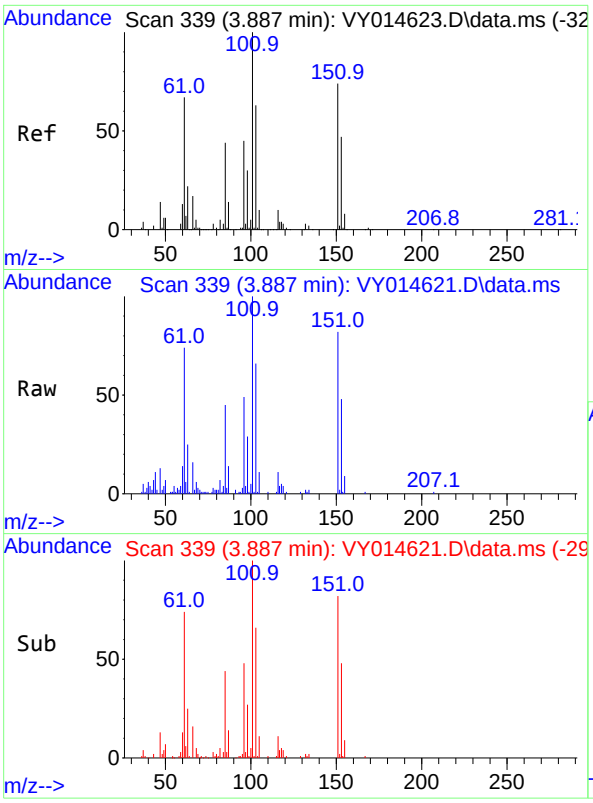


#8
Diethyl Ether
Concen: 9.454 ug/l
RT: 3.521 min Scan# 279
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 74 Resp: 21795

Ion	Ratio	Lower	Upper
74	100		
45	90.7	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.593 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

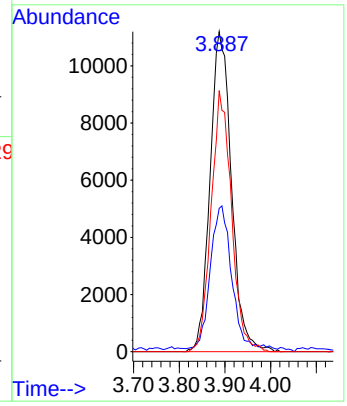
Tgt Ion:101 Resp: 3643

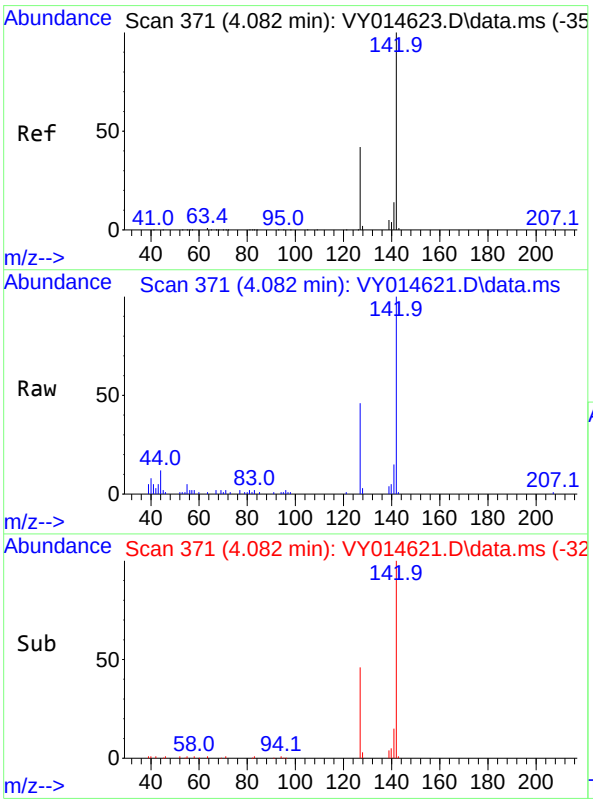
Ion	Ratio	Lower	Upper
101	100		
85	43.6	36.6	55.0
151	77.4	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

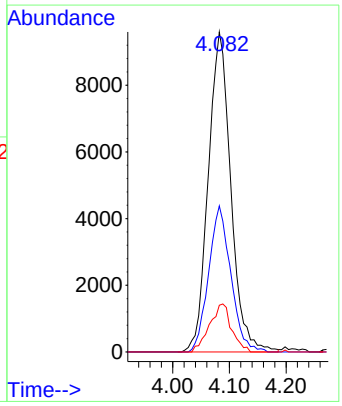


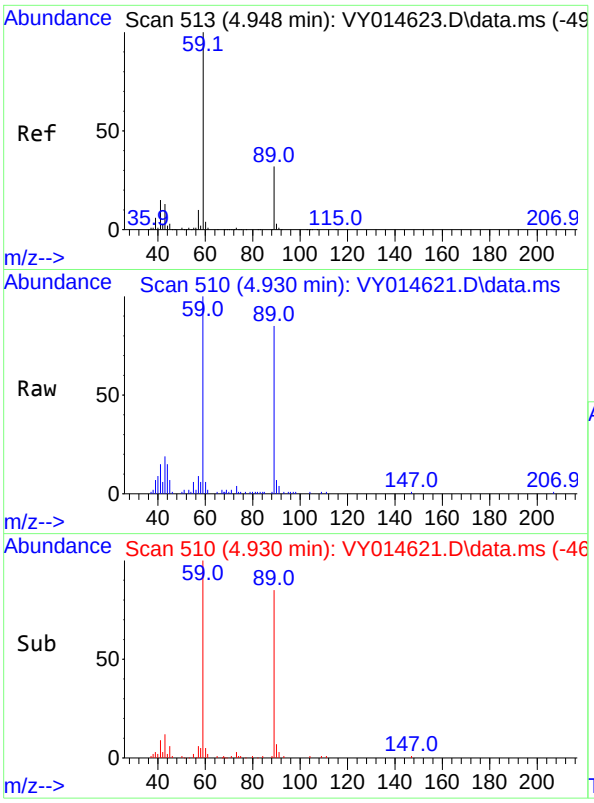


#10
Methyl Iodide
Concen: 8.643 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:142 Resp: 26512

Ion	Ratio	Lower	Upper
142	100		
127	44.9	37.6	56.4
141	14.6	11.8	17.8

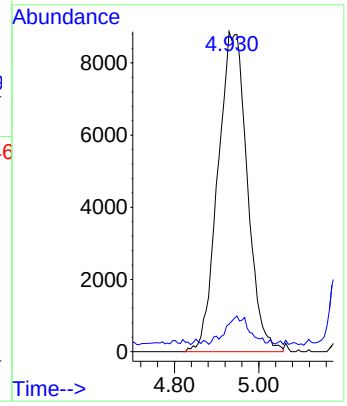




#11
Tert butyl alcohol
Concen: 37.986 ug/l
RT: 4.930 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 59 Resp: 4268

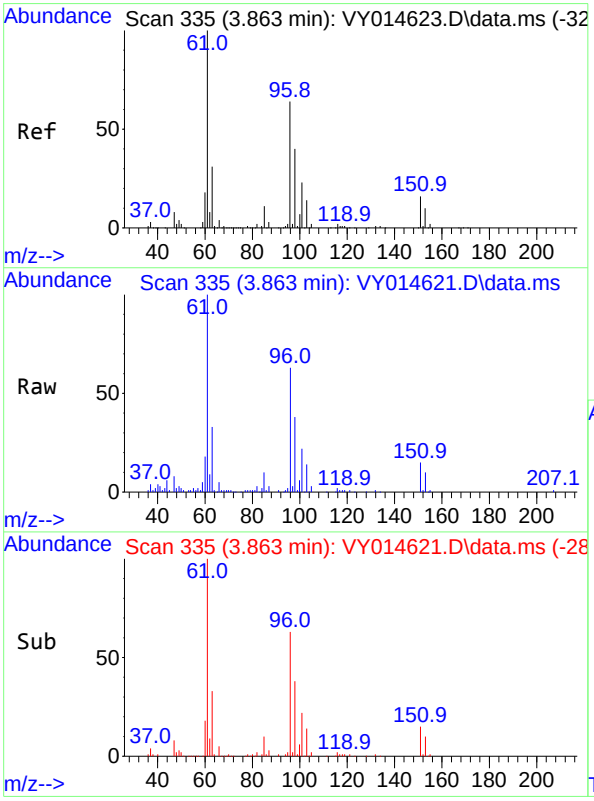
Ion	Ratio	Lower	Upper
59	100		
57	6.2	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

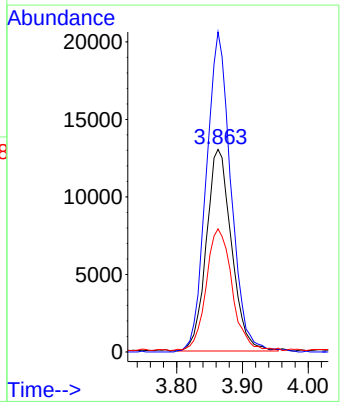
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

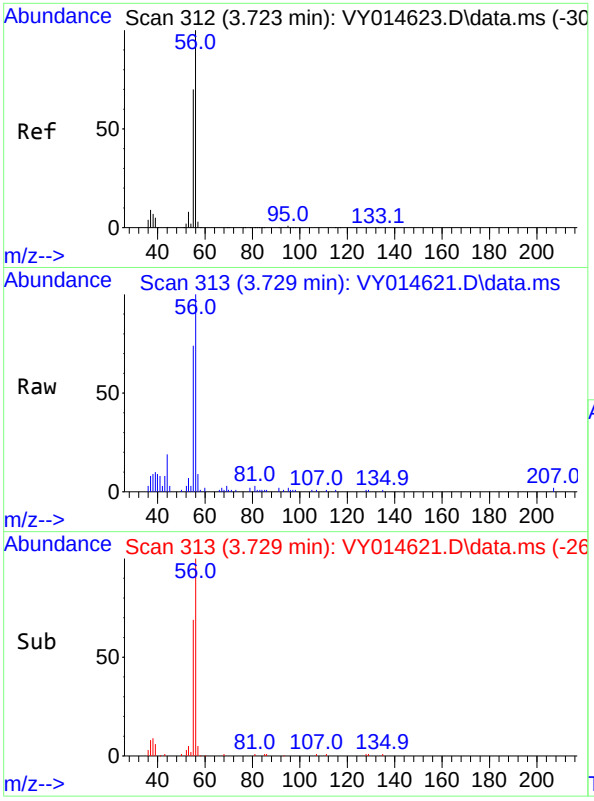


#12
1,1-Dichloroethene
Concen: 9.752 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 96 Resp: 34612

Ion	Ratio	Lower	Upper
96	100		
61	158.0	136.4	204.6
98	59.7	49.4	74.2

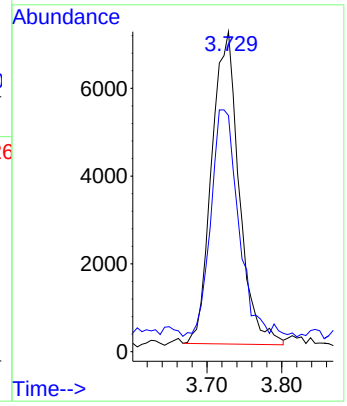




#13
Acrolein
Concen: 42.375 ug/l
RT: 3.729 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 56 Resp: 1819

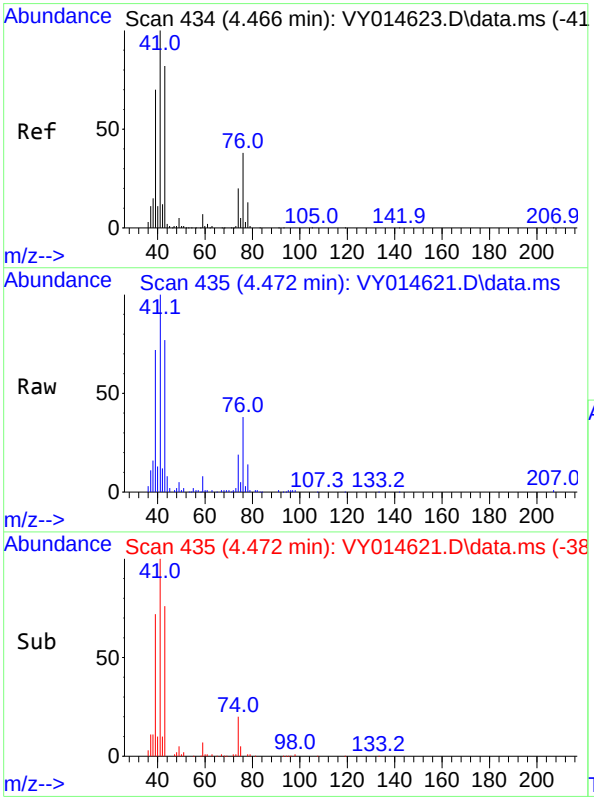
Ion	Ratio	Lower	Upper
56	100		
55	72.5	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

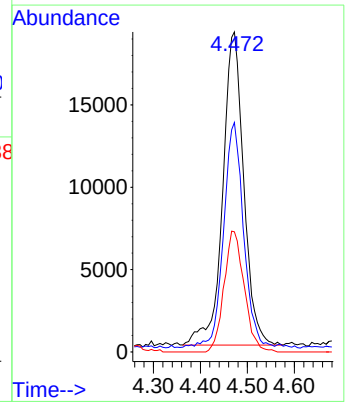
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

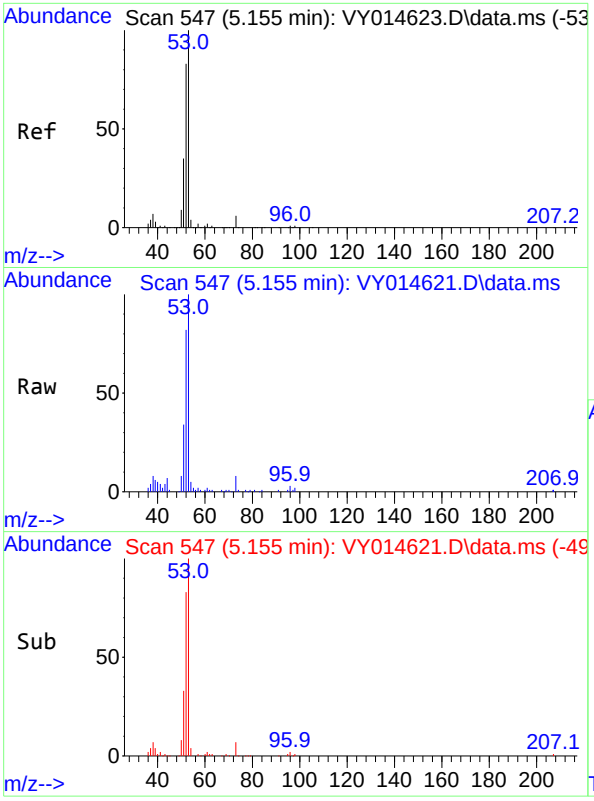


#14
Allyl chloride
Concen: 9.407 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 41 Resp: 59284

Ion	Ratio	Lower	Upper
41	100		
39	68.2	58.0	87.0
76	37.0	27.4	41.2

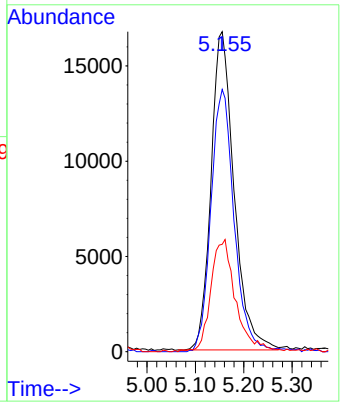




#15
Acrylonitrile
Concen: 43.565 ug/l
RT: 5.155 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 53 Resp: 5538

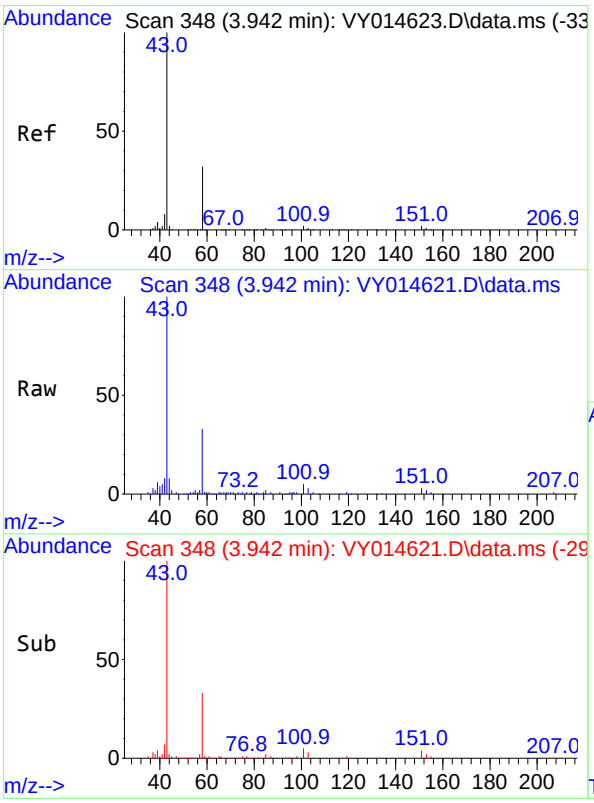
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.9	100.3
51	37.9	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

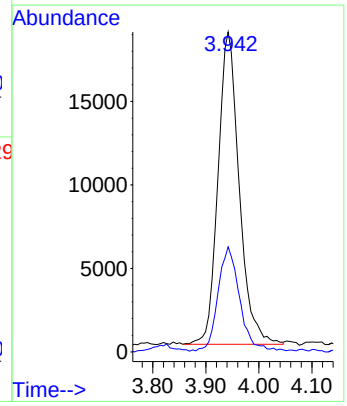
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

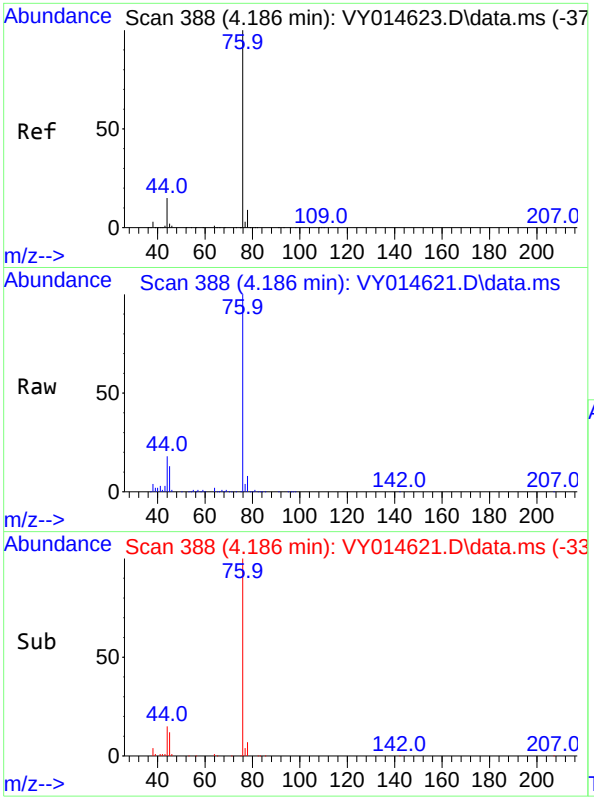


#16
Acetone
Concen: 39.865 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 51885

Ion	Ratio	Lower	Upper
43	100		
58	33.0	22.7	34.1

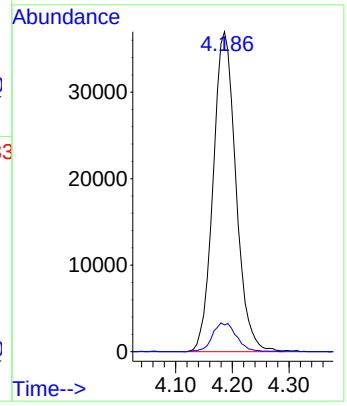




#17
Carbon Disulfide
Concen: 10.134 ug/l
RT: 4.186 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 76 Resp: 10297

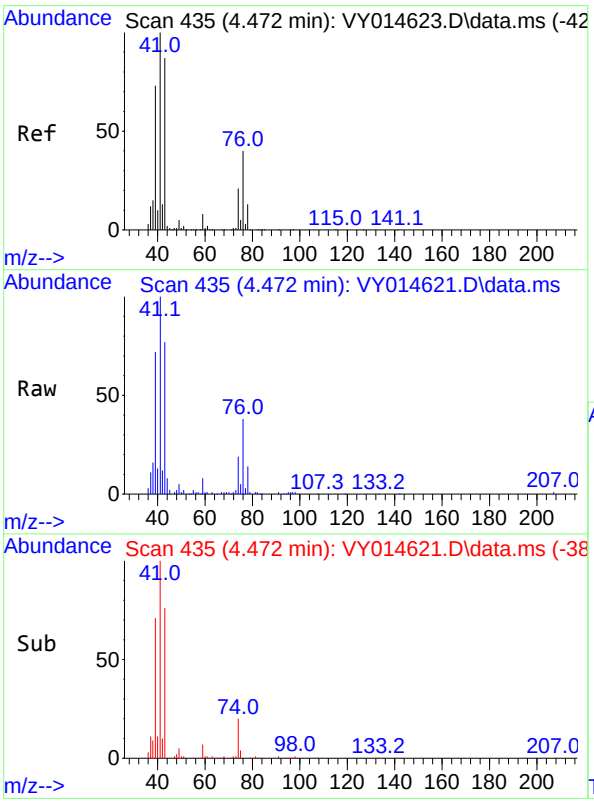
Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

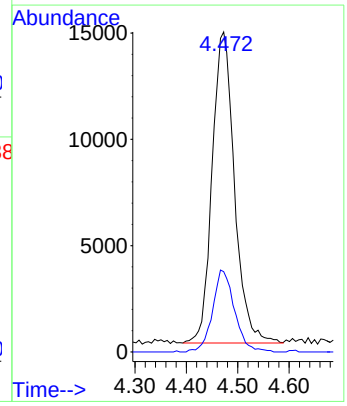
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

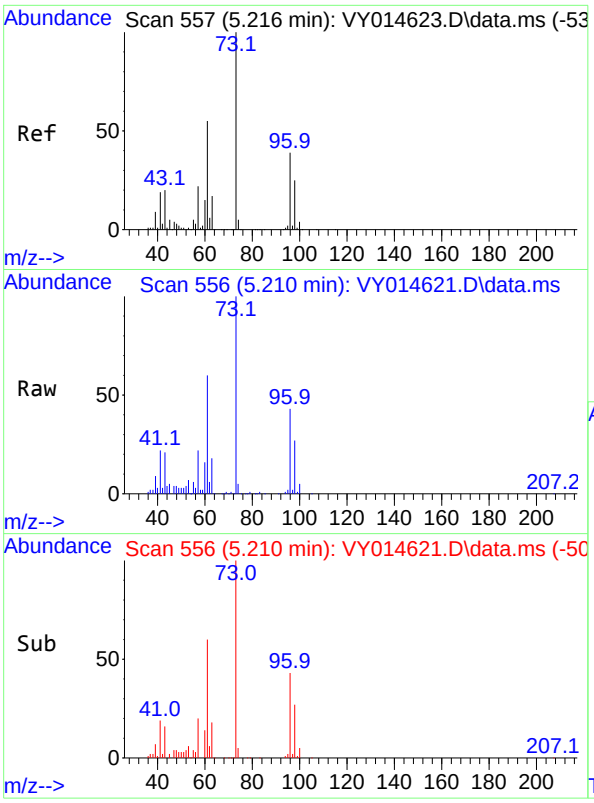


#18
Methyl Acetate
Concen: 8.842 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 44164

Ion	Ratio	Lower	Upper
43	100		
74	25.9	17.4	26.0

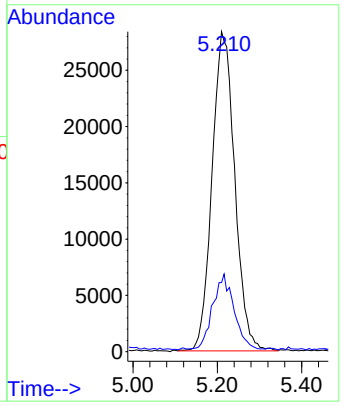




#19
Methyl tert-butyl Ether
Concen: 9.166 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 73 Resp: 10568

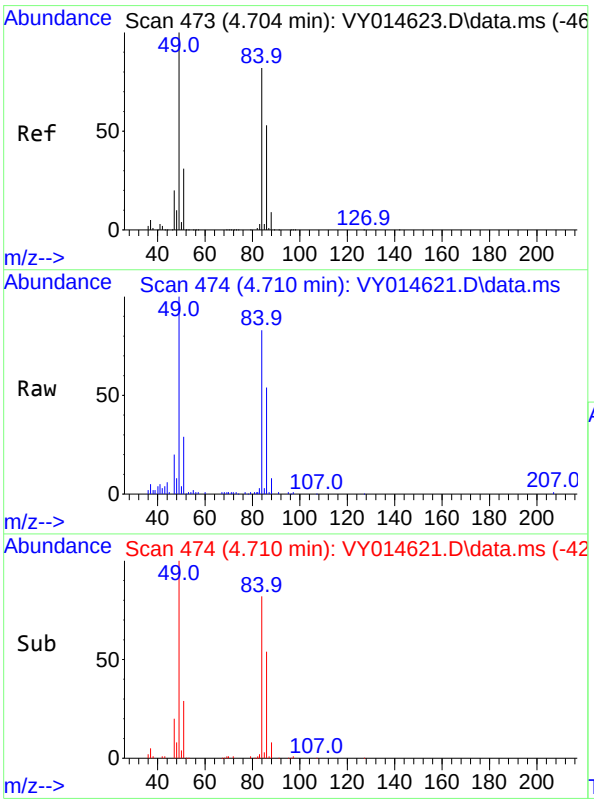
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

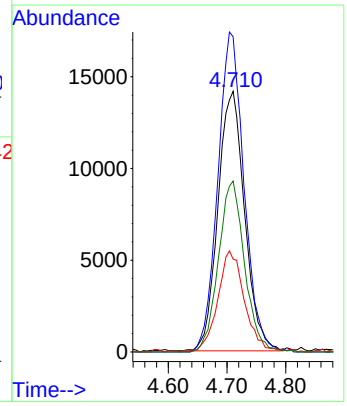
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

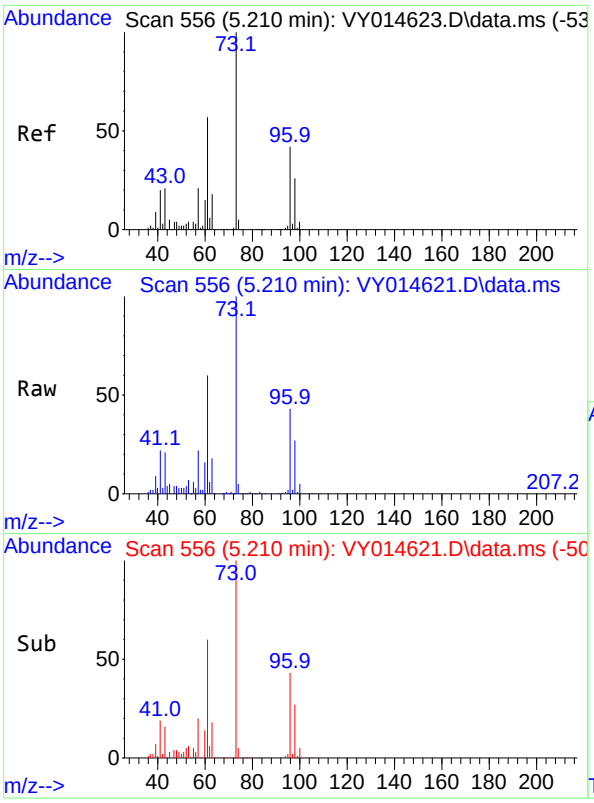


#20
Methylene Chloride
Concen: 6.936 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 84 Resp: 44706

Ion	Ratio	Lower	Upper
84	100		
49	121.5	106.9	160.3
51	35.3	33.2	49.8
86	65.9	51.0	76.6

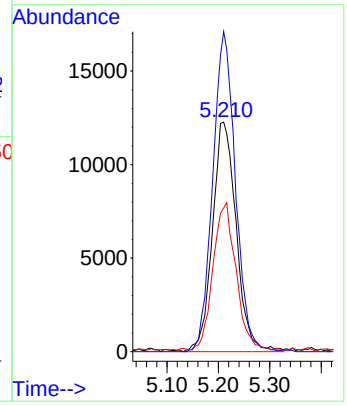




#21
trans-1,2-Dichloroethene
Concen: 9.776 ug/l
RT: 5.210 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 96 Resp: 3937

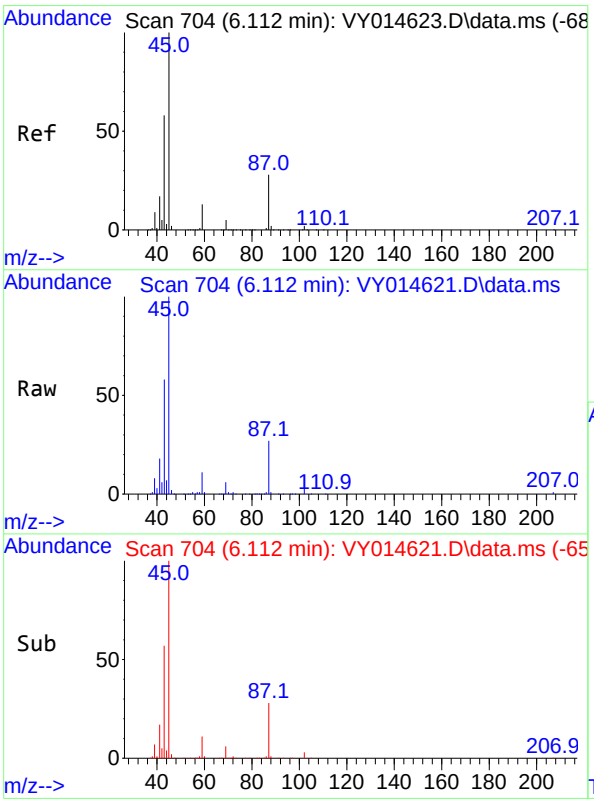
Ion	Ratio	Lower	Upper
96	100		
61	139.4	110.2	165.4
98	62.0	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

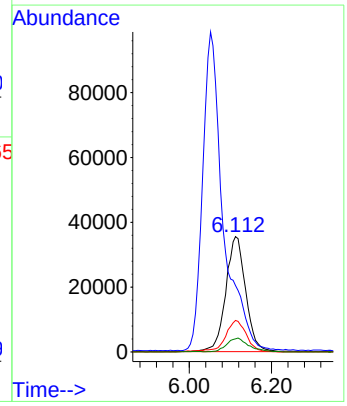
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

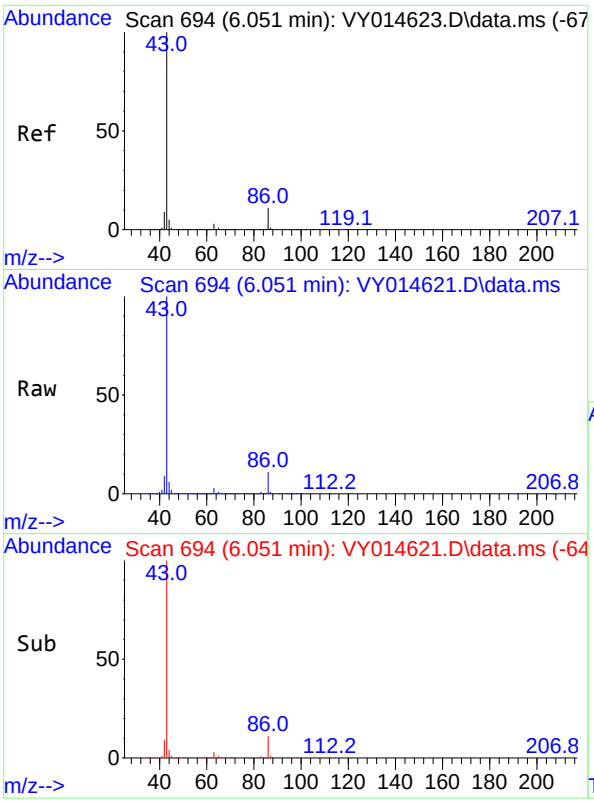


#22
Diisopropyl ether
Concen: 9.294 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 45 Resp: 119074

Ion	Ratio	Lower	Upper
45	100		
43	56.4	52.2	78.4
87	27.5	21.0	31.6
59	11.4	8.9	13.3

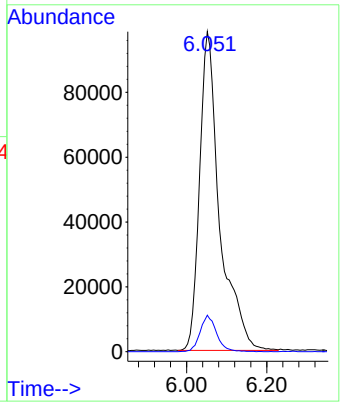




#23
Vinyl Acetate
Concen: 44.632 ug/l
RT: 6.051 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 34220

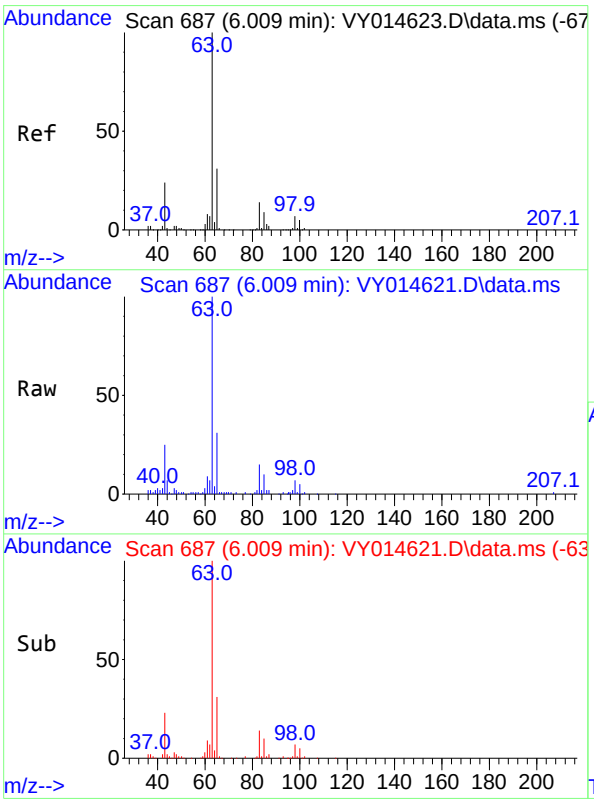
Ion	Ratio	Lower	Upper
43	100		
86	11.4	7.5	11.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

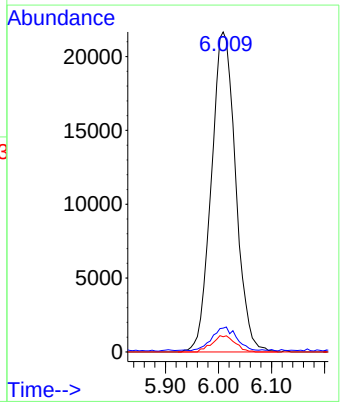
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

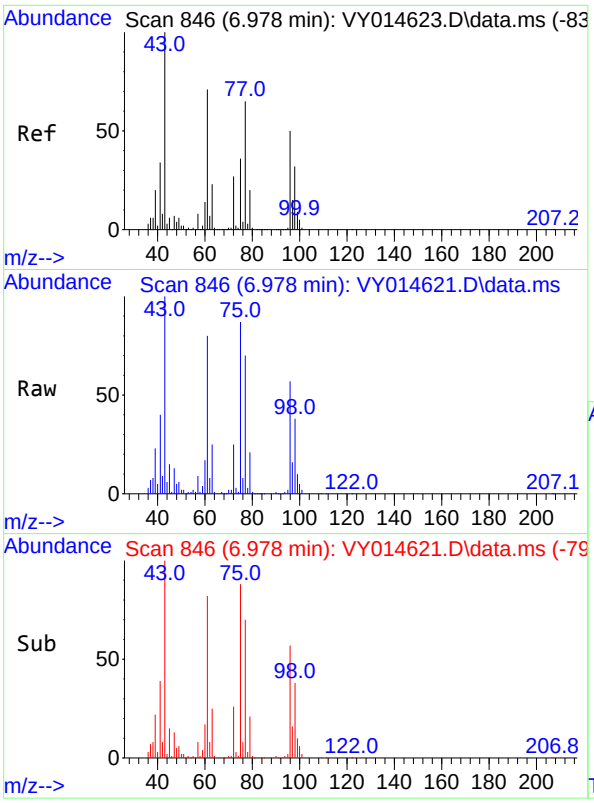


#24
1,1-Dichloroethane
Concen: 9.402 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 63 Resp: 68929

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.1	9.4
100	4.7	1.8	5.5





#25
2-Butanone
Concen: 42.281 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

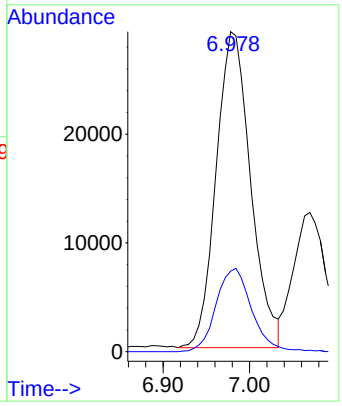
Tgt Ion: 43 Resp: 8050

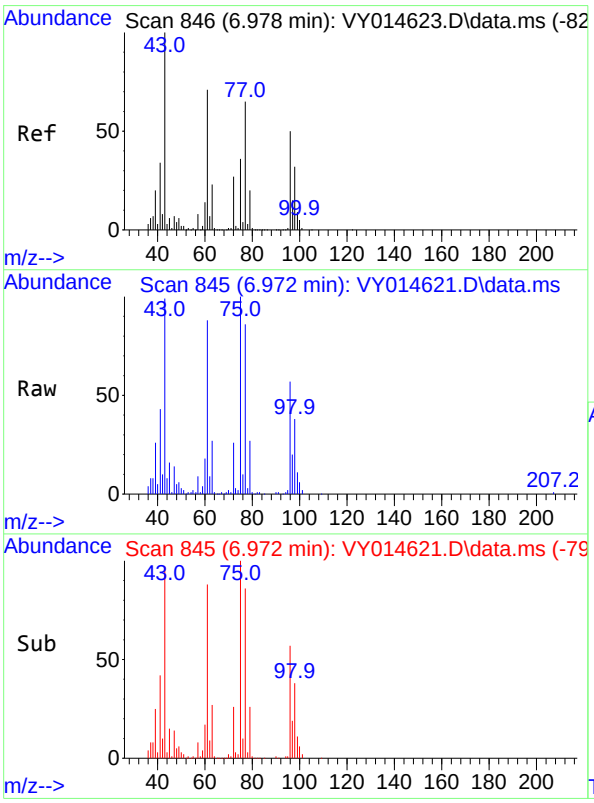
Ion	Ratio	Lower	Upper
43	100		
72	25.5	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

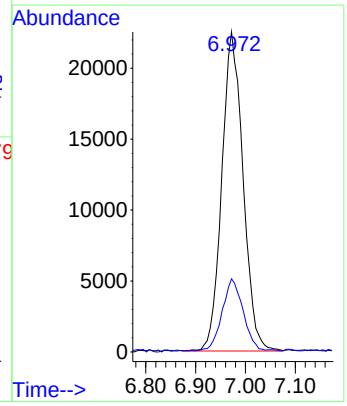


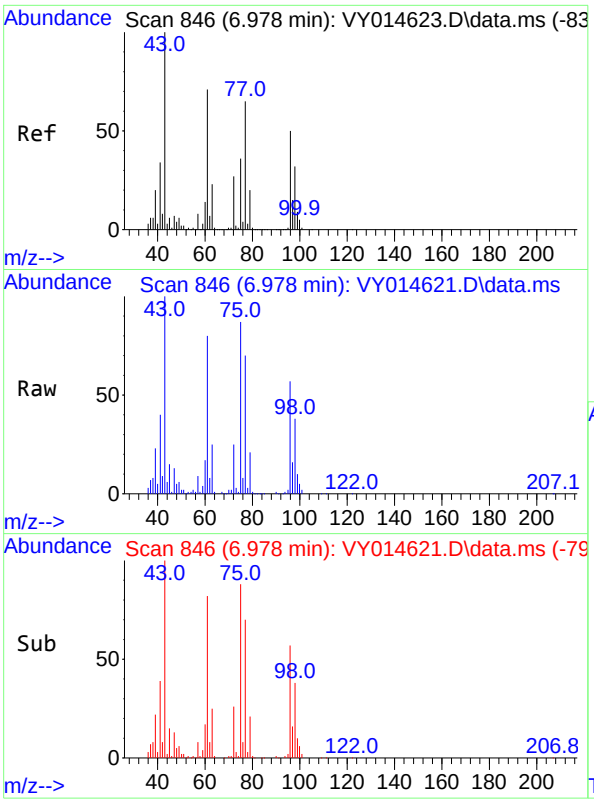


#26
2,2-Dichloropropane
Concen: 9.516 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 77 Resp: 66485

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.9

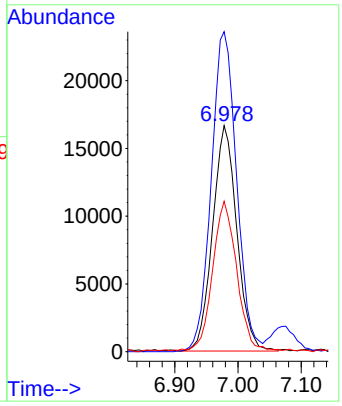




#27
cis-1,2-Dichloroethene
Concen: 9.447 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 96 Resp: 4429

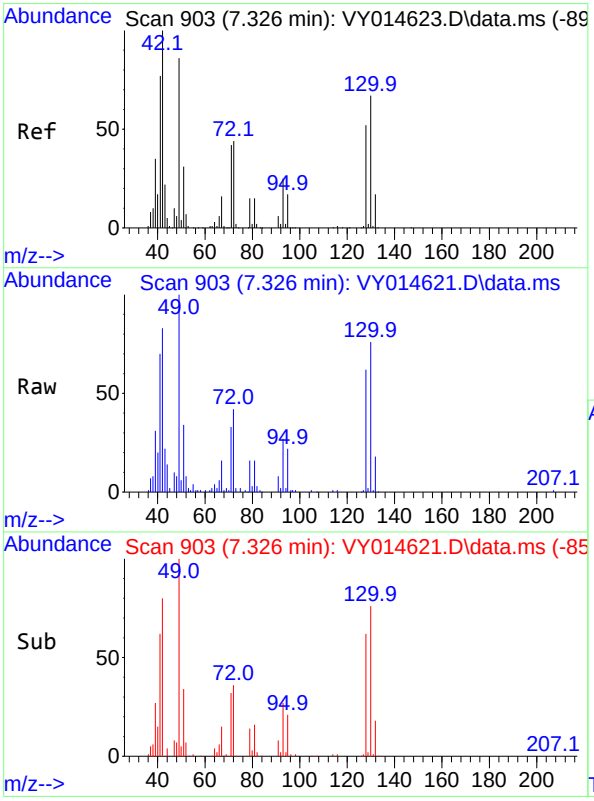
Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	301.4
98	65.7	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

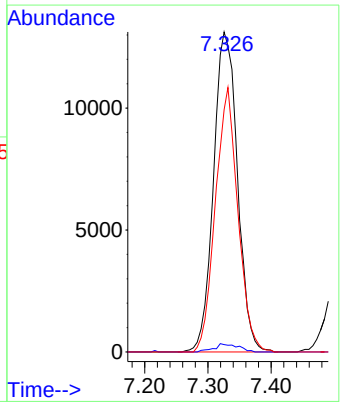
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

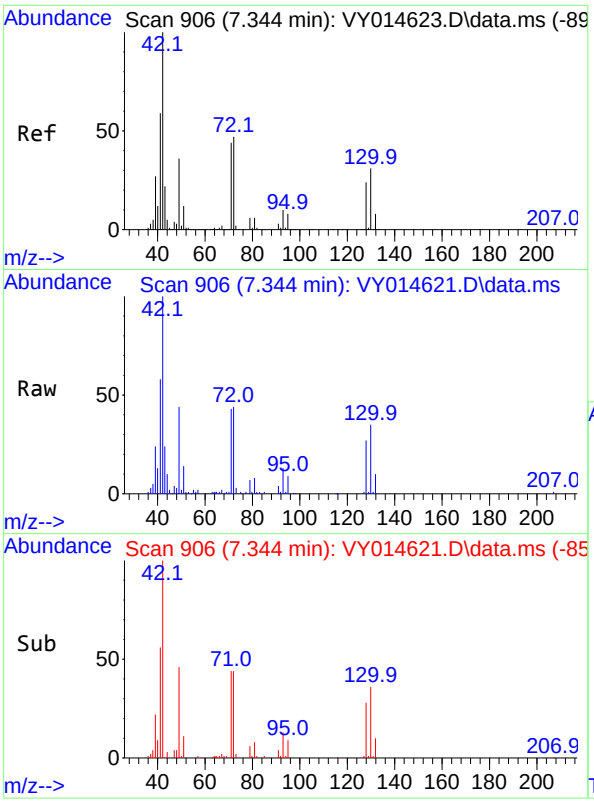


#28
Bromochloromethane
Concen: 10.913 ug/l
RT: 7.326 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 49 Resp: 34457

Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	4.6
130	77.9	60.7	91.1





#29
Tetrahydrofuran
Concen: 43.514 ug/l
RT: 7.344 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

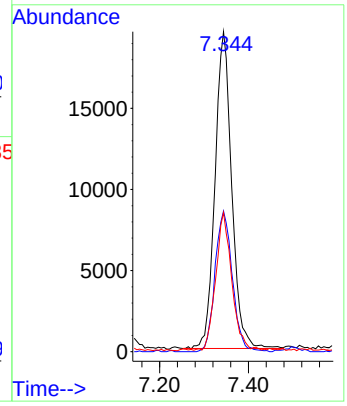
Tgt Ion: 42 Resp: 5101

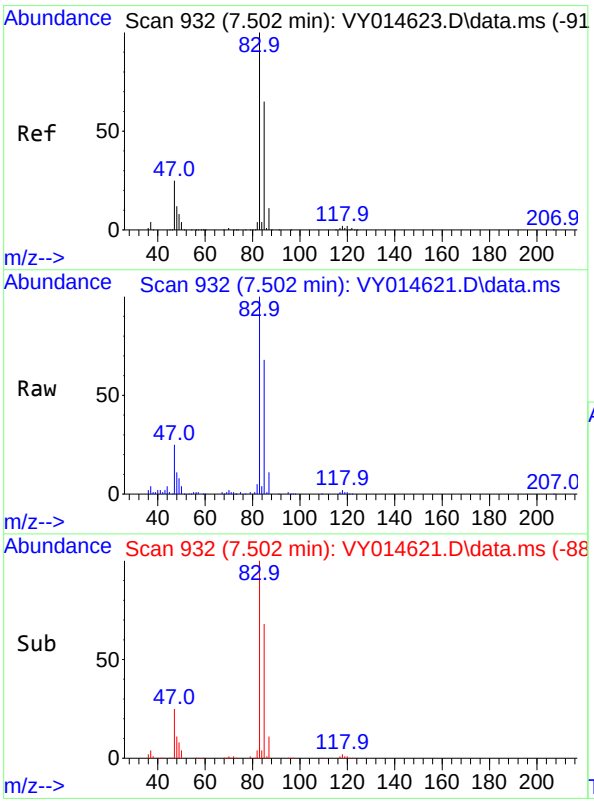
Ion	Ratio	Lower	Upper
42	100		
72	46.0	32.8	49.2
71	41.6	31.0	46.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

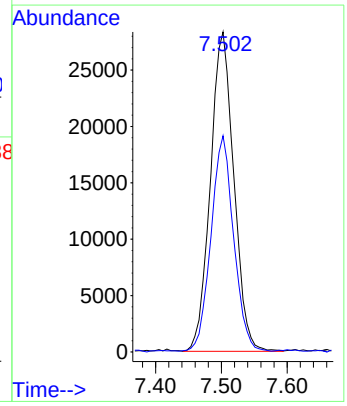


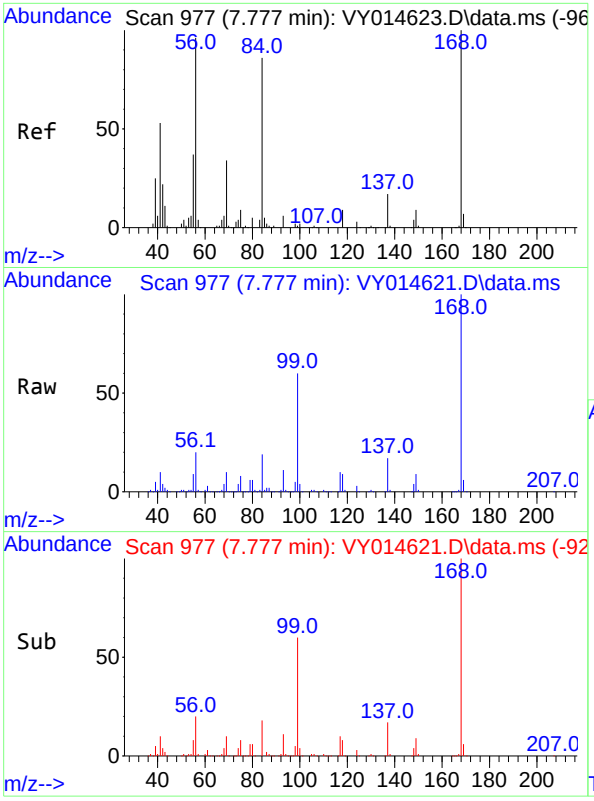


#30
Chloroform
Concen: 9.291 ug/l
RT: 7.502 min Scan# 932
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 83 Resp: 70240

Ion	Ratio	Lower	Upper
83	100		
85	67.3	49.7	74.5

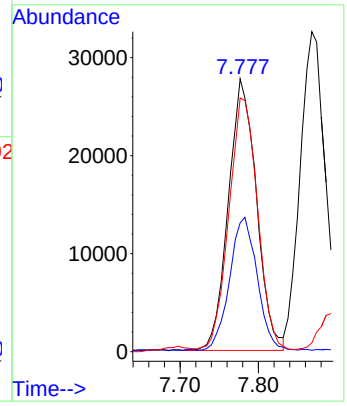




#31
Cyclohexane
Concen: 10.134 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 56 Resp: 6909

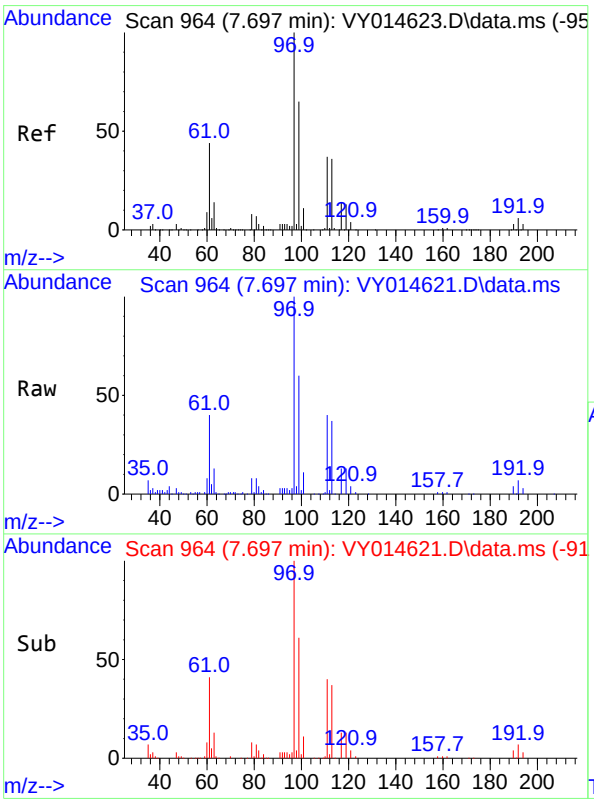
Ion	Ratio	Lower	Upper
56	100		
69	47.0	27.8	41.6
84	92.0	66.4	99.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

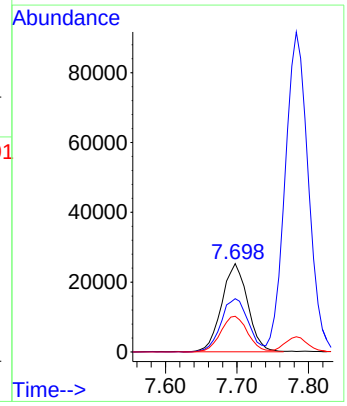
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

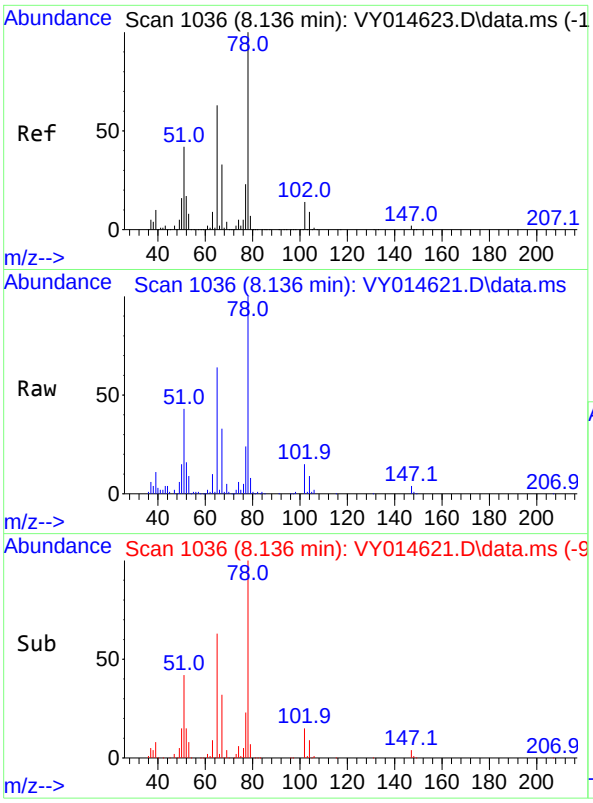


#32
1,1,1-Trichloroethane
Concen: 9.323 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 97 Resp: 63435

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	42.1	35.1	52.7

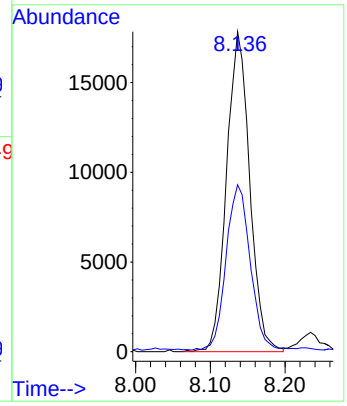




#33
1,2-Dichloroethane-d4
Concen: 9.368 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 65 Resp: 3847

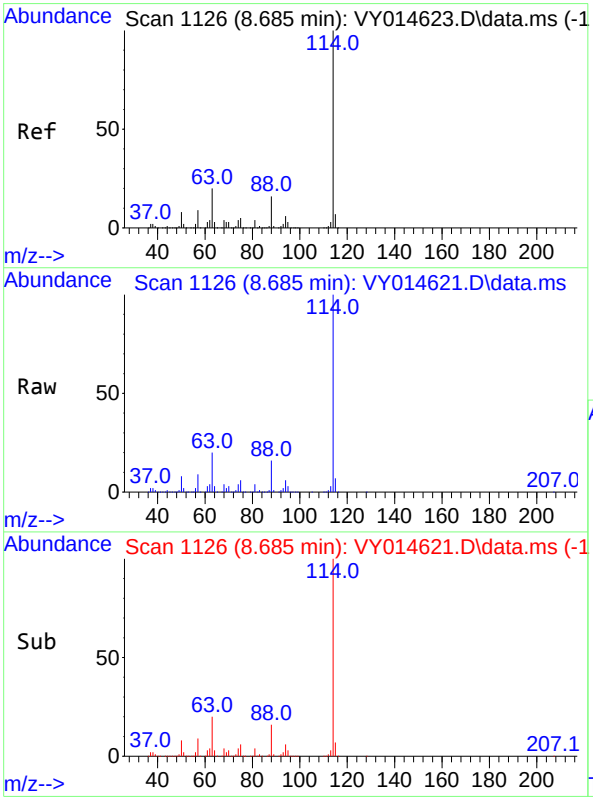
Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

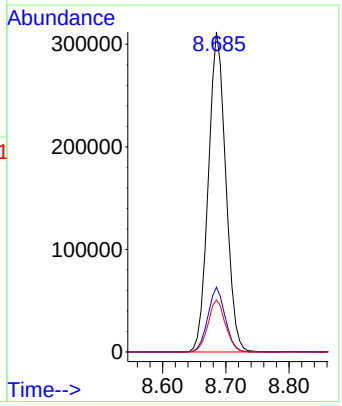
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

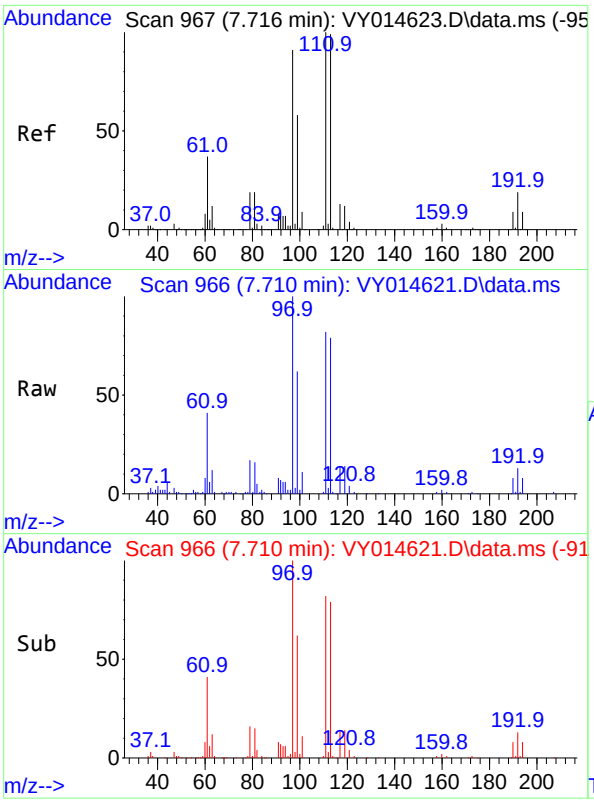


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:114 Resp: 596835

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.4
88	16.3	0.0	30.6

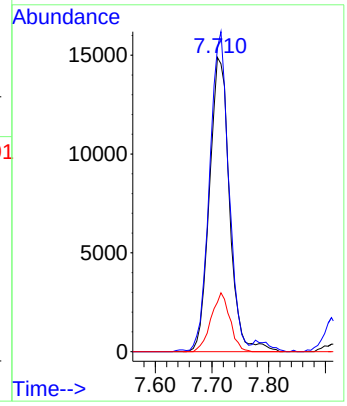




#35
Dibromofluoromethane
Concen: 9.630 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:113 Resp: 3658

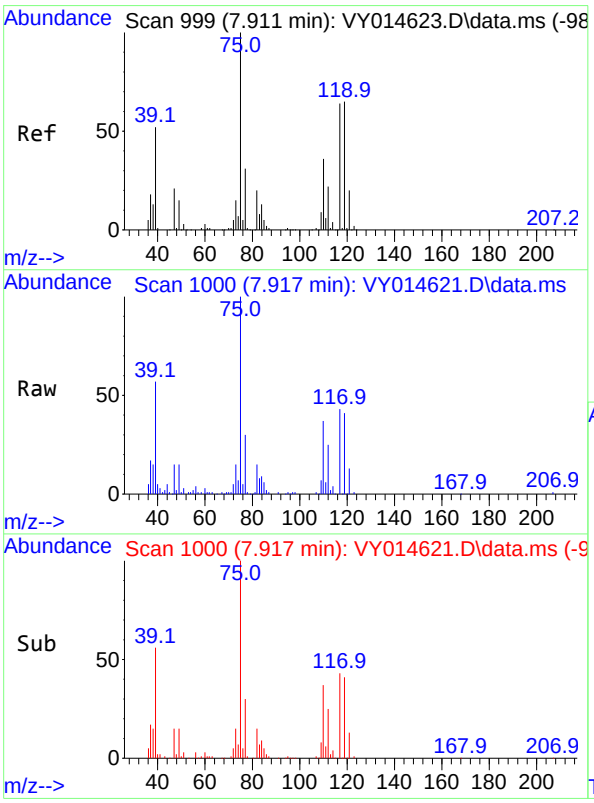
Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.3	121.9
192	18.8	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

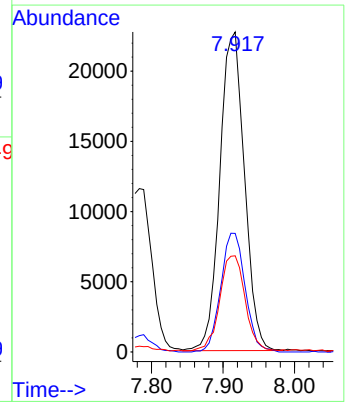
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

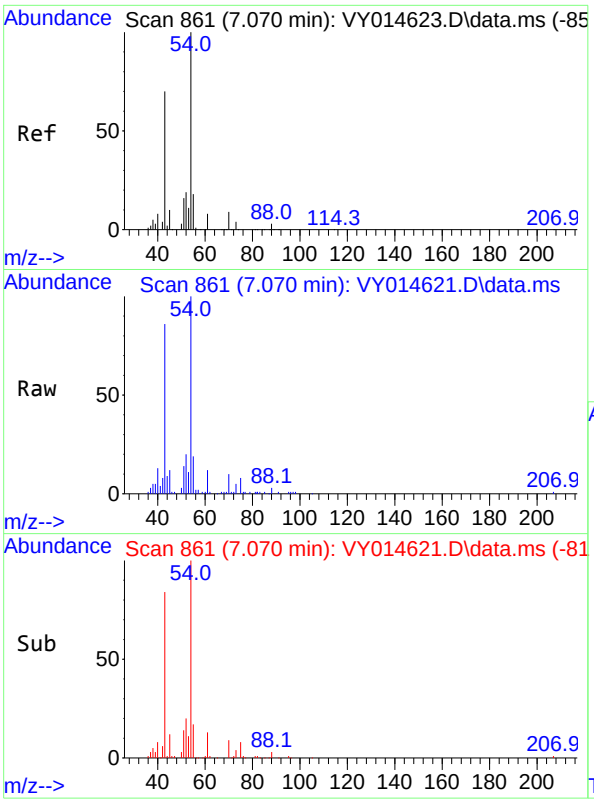


#36
1,1-Dichloropropene
Concen: 9.551 ug/l
RT: 7.917 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 54266

Ion	Ratio	Lower	Upper
75	100		
110	37.0	17.8	53.5
77	30.8	24.4	36.6

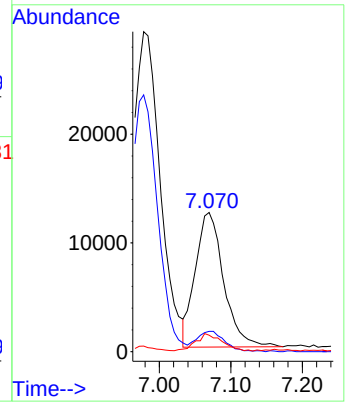




#37
Ethyl Acetate
Concen: 8.742 ug/l
RT: 7.070 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 3419

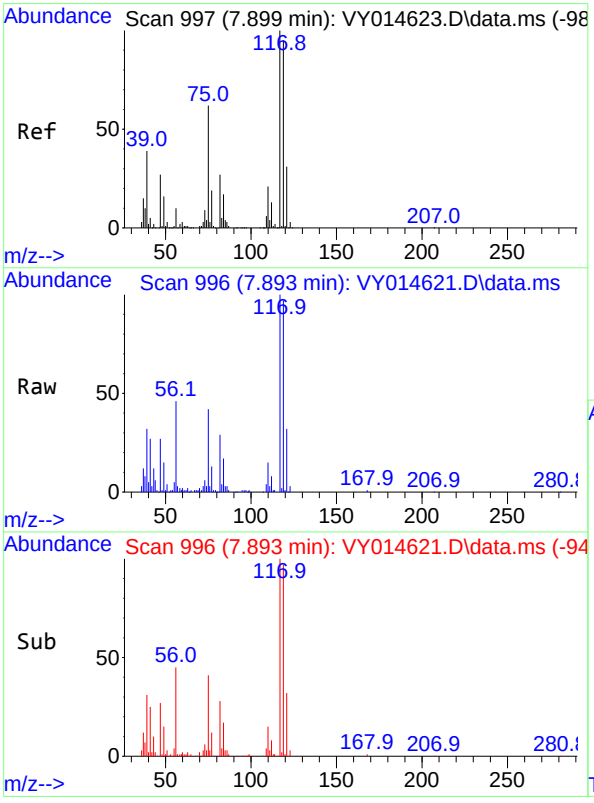
Ion	Ratio	Lower	Upper
43	100		
61	15.0	10.1	15.1
70	11.8	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

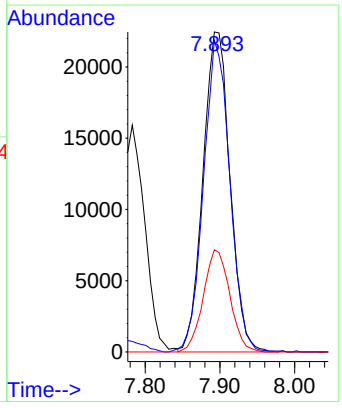
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

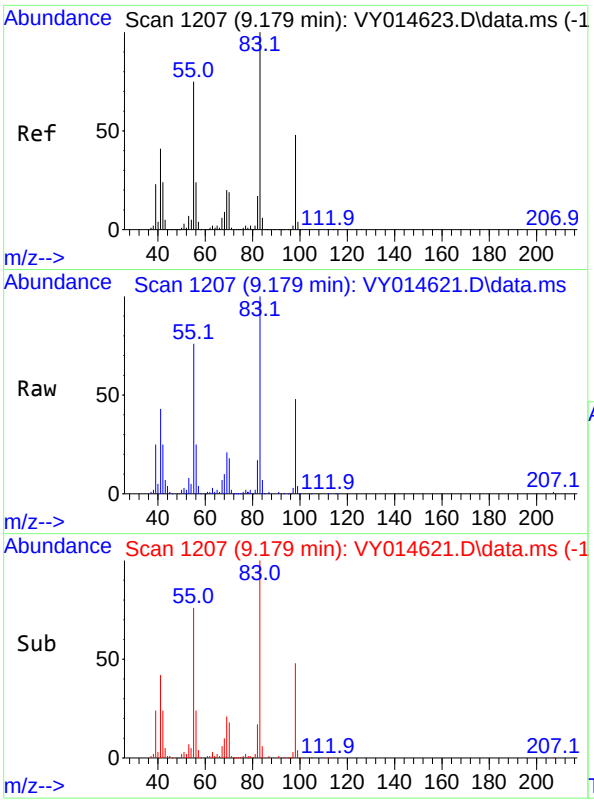


#38
Carbon Tetrachloride
Concen: 9.395 ug/l
RT: 7.893 min Scan# 996
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:117 Resp: 56429

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.4	114.6
121	31.9	25.8	38.6

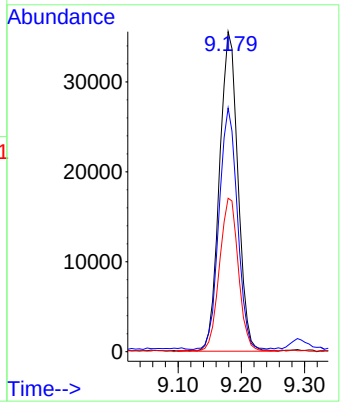




#39
Methylcyclohexane
Concen: 9.684 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 83 Resp: 7168

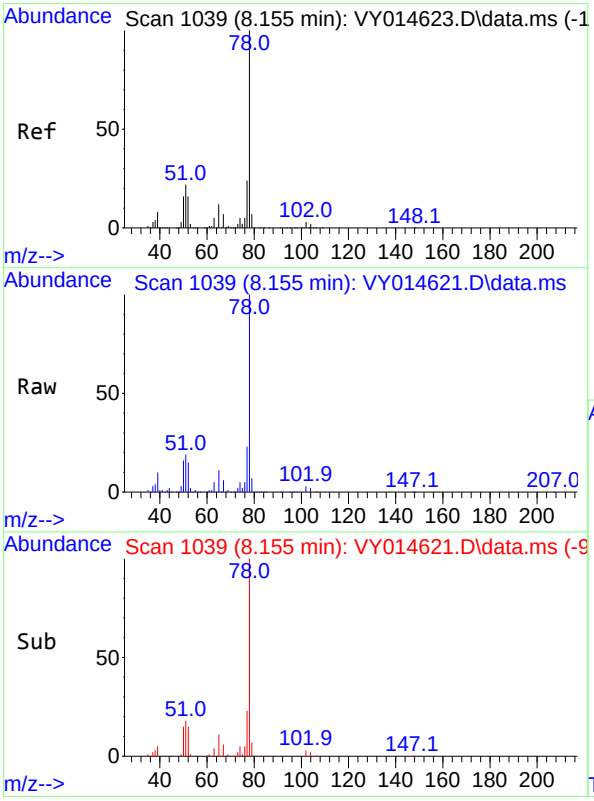
Ion	Ratio	Lower	Upper
83	100		
55	75.3	63.0	94.4
98	47.8	37.4	56.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

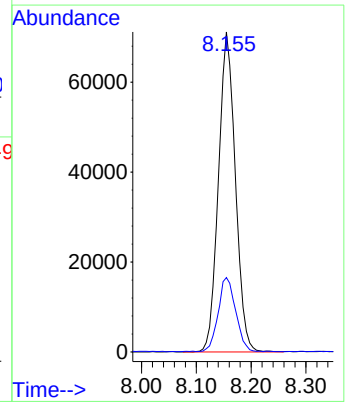
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

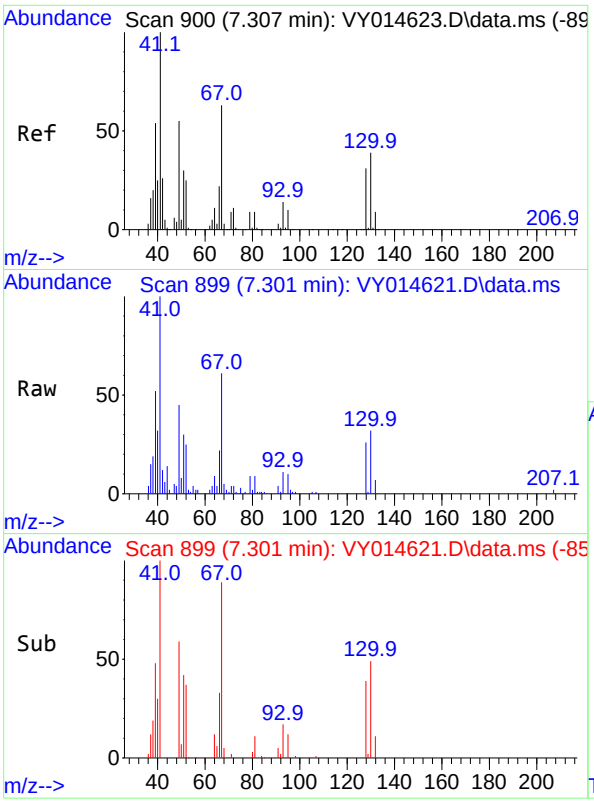


#40
Benzene
Concen: 9.435 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 78 Resp: 152456

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.6

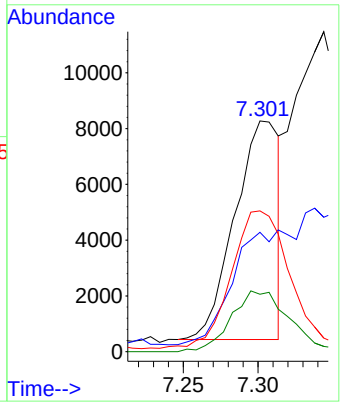




#41
Methacrylonitrile
Concen: 7.821 ug/l
RT: 7.301 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 41 Resp: 1618

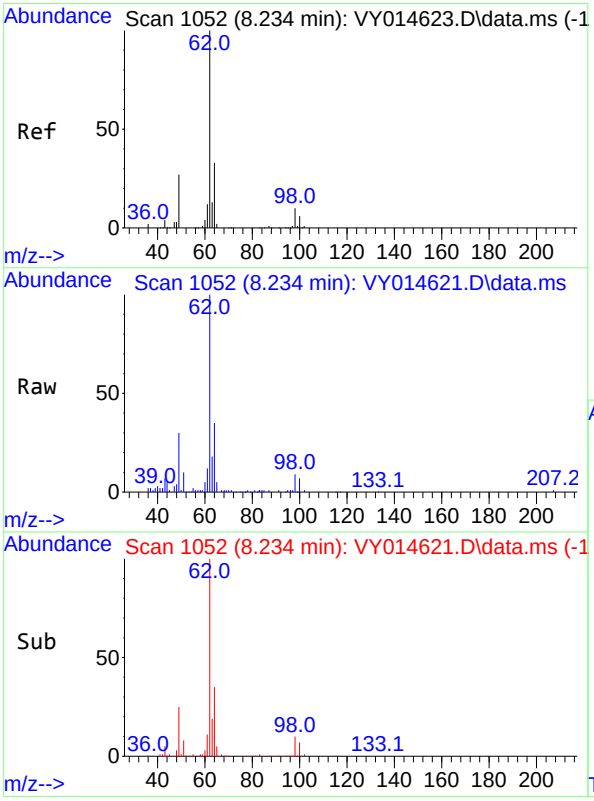
Ion	Ratio	Lower	Upper
41	100		
39	46.0	52.1	78.1
67	84.4	66.2	99.2
52	37.1	29.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

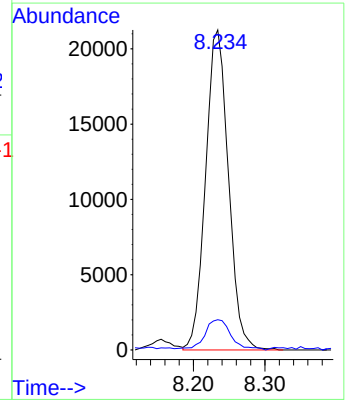
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

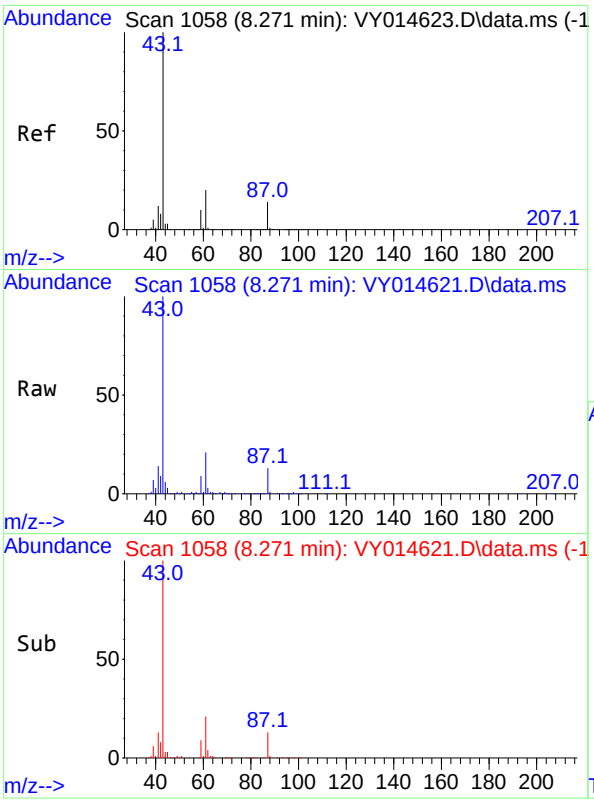


#42
1,2-Dichloroethane
Concen: 9.219 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 62 Resp: 47177

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	15.8

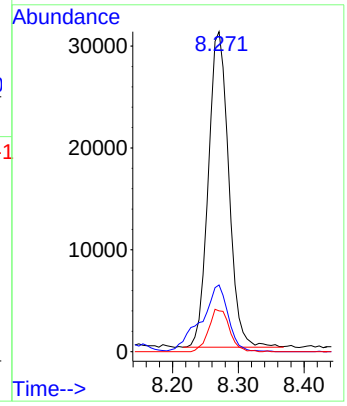




#43
Isopropyl Acetate
Concen: 8.969 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 6683

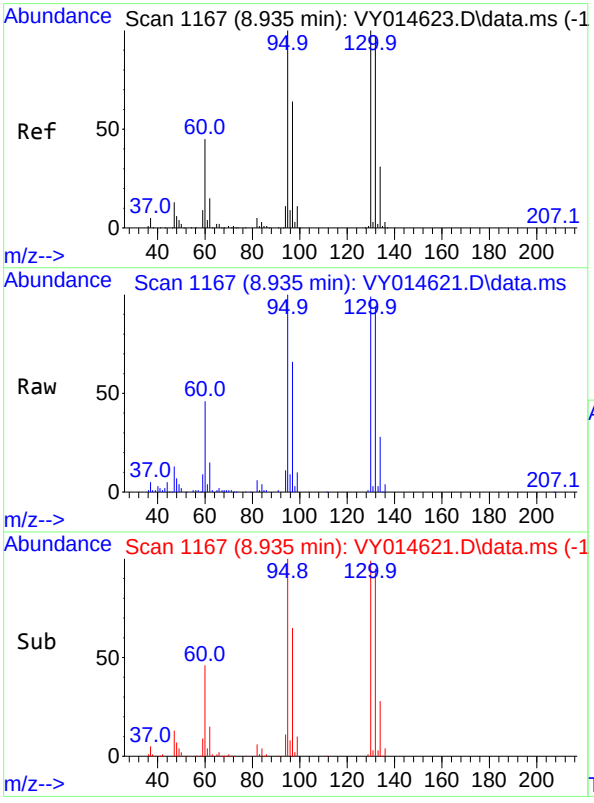
Ion	Ratio	Lower	Upper
43	100		
61	28.2	21.1	31.7
87	13.7	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

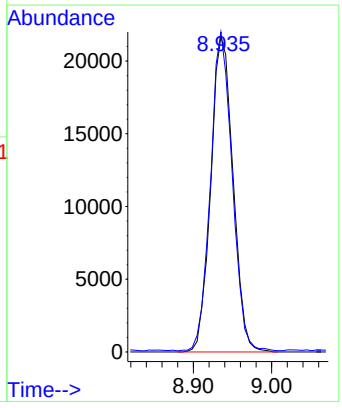
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

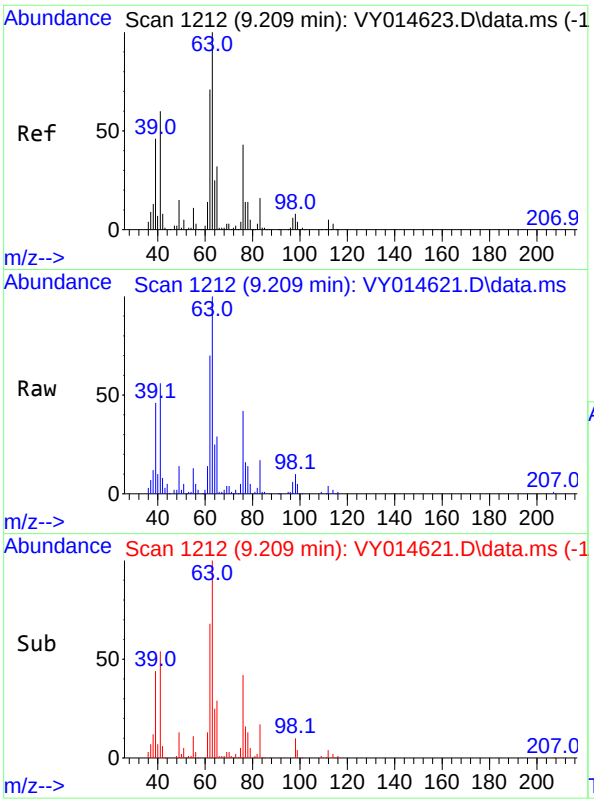


#44
Trichloroethene
Concen: 9.461 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:130 Resp: 42773

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	196.0

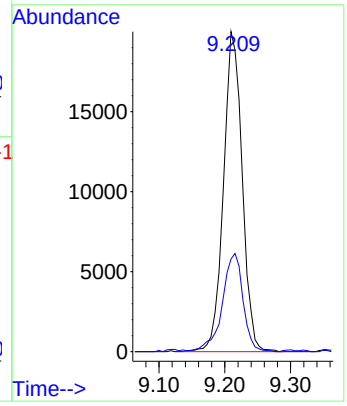




#45
1,2-Dichloropropane
Concen: 9.375 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 63 Resp: 3955

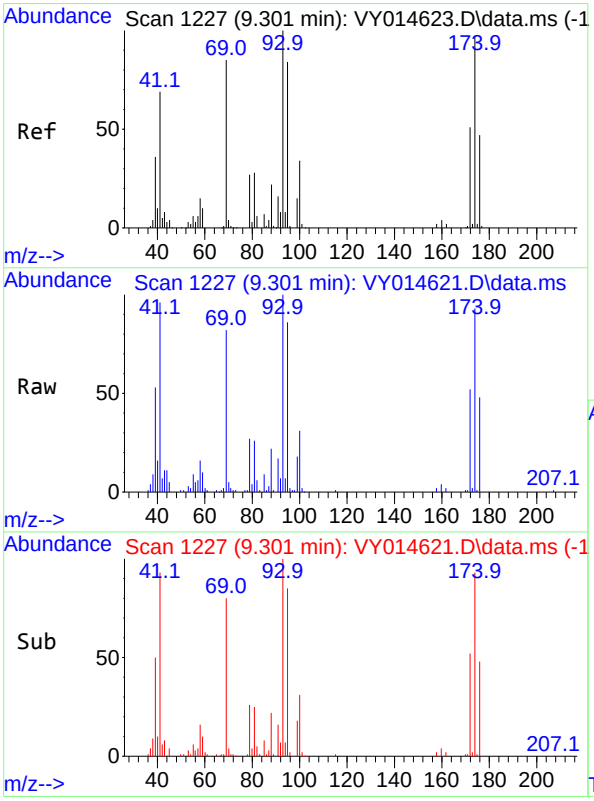
Ion	Ratio	Lower	Upper
63	100		
65	28.6	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

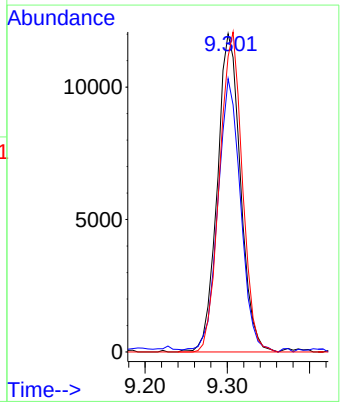
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

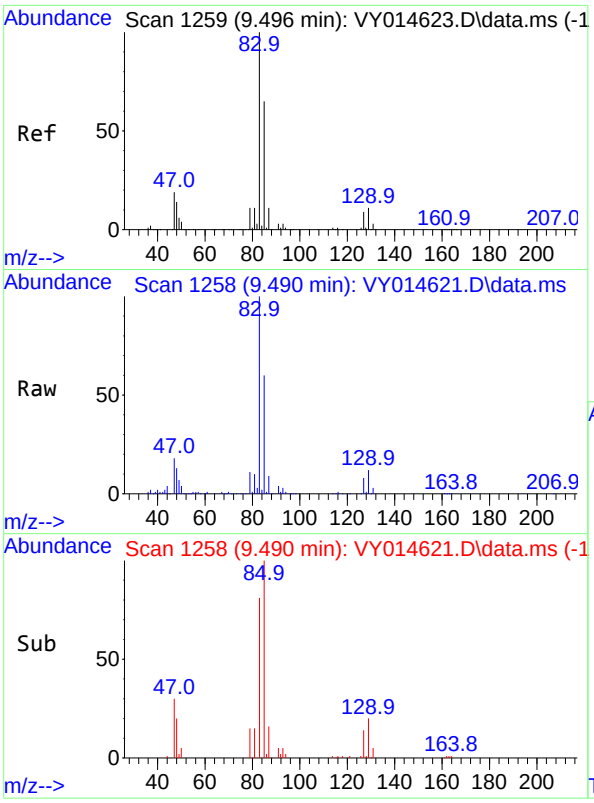


#46
Dibromomethane
Concen: 9.219 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 93 Resp: 23598

Ion	Ratio	Lower	Upper
93	100		
95	84.2	66.6	100.0
174	98.3	84.8	127.2

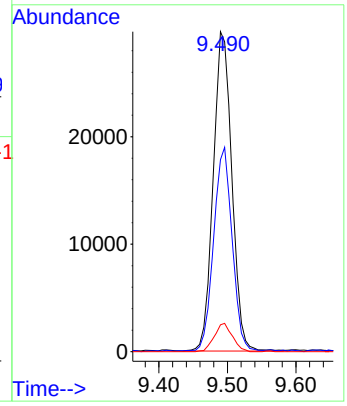




#47
Bromodichloromethane
Concen: 9.282 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 83 Resp: 5599

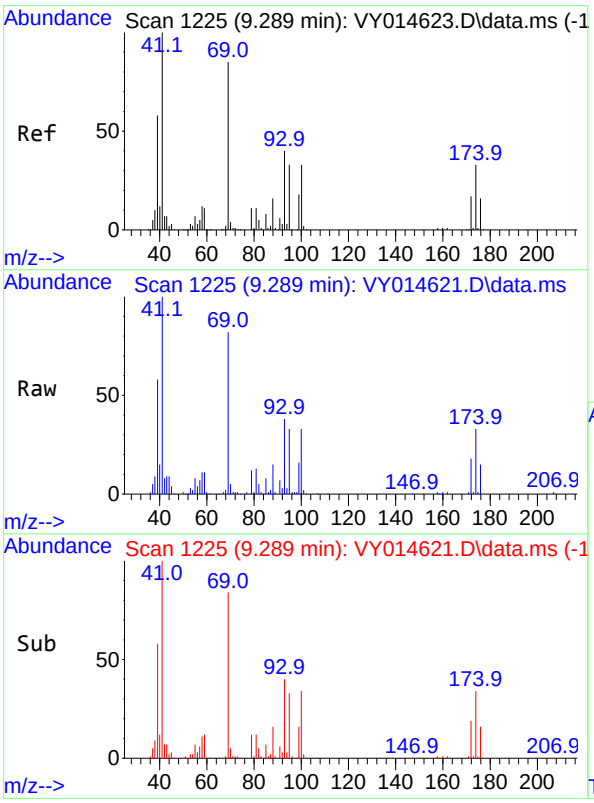
Ion	Ratio	Lower	Upper
83	100		
85	59.9	50.1	75.1
127	8.4	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

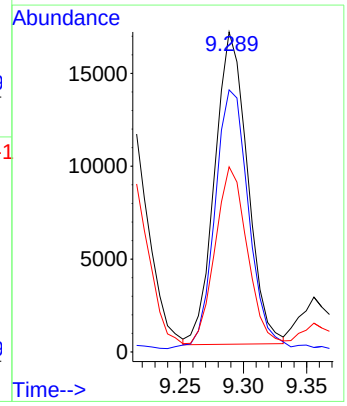
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

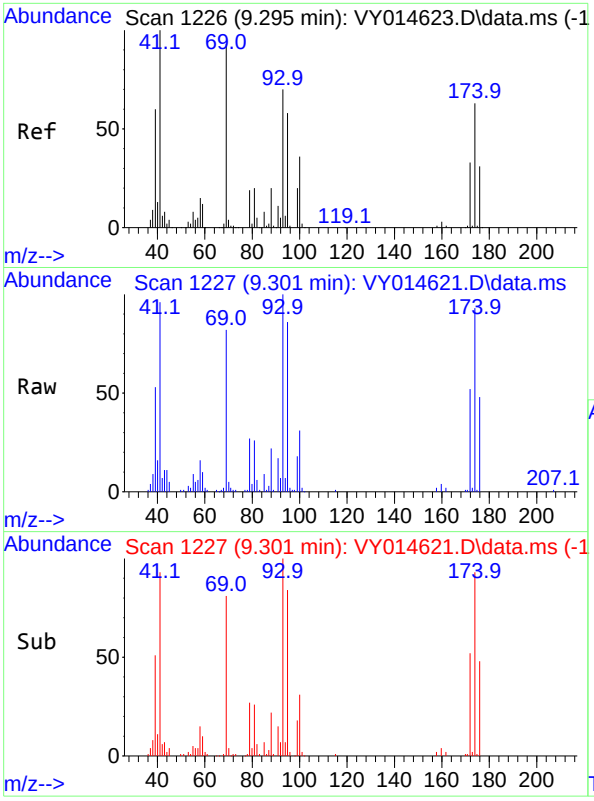


#48
Methyl methacrylate
Concen: 9.052 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 41 Resp: 30353

Ion	Ratio	Lower	Upper
41	100		
69	86.3	64.5	96.7
39	55.5	50.8	76.2





#49
1,4-Dioxane
Concen: 158.315 ug/l
RT: 9.301 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

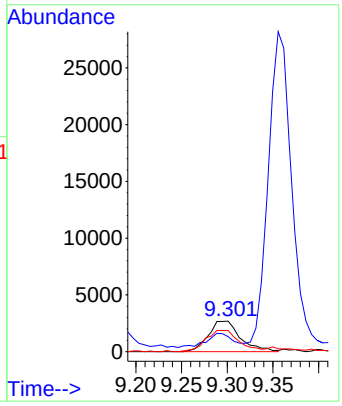
Tgt Ion: 88 Resp: 660

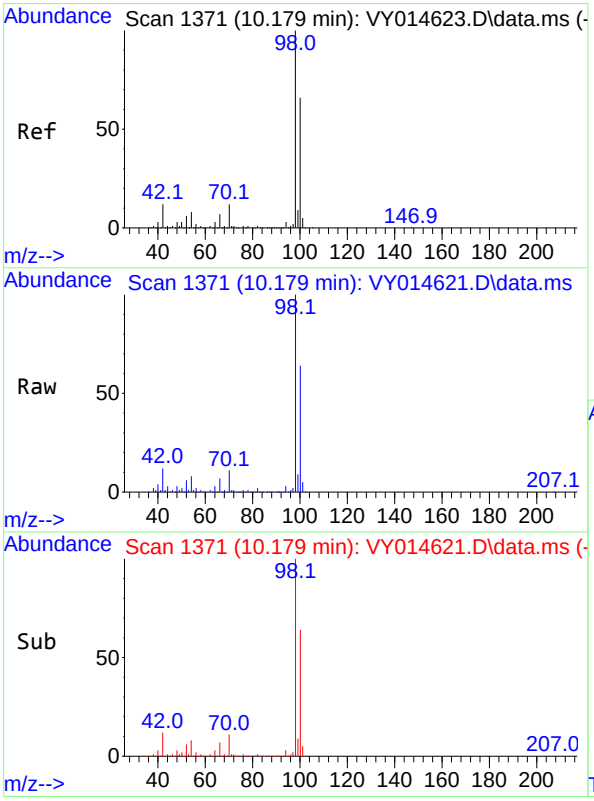
Ion	Ratio	Lower	Upper
88	100		
43	38.0	0.0	0.0#
58	71.7	30.9	46.3#

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

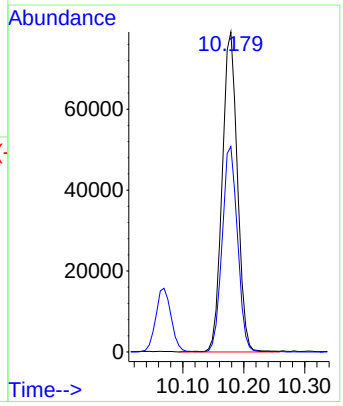


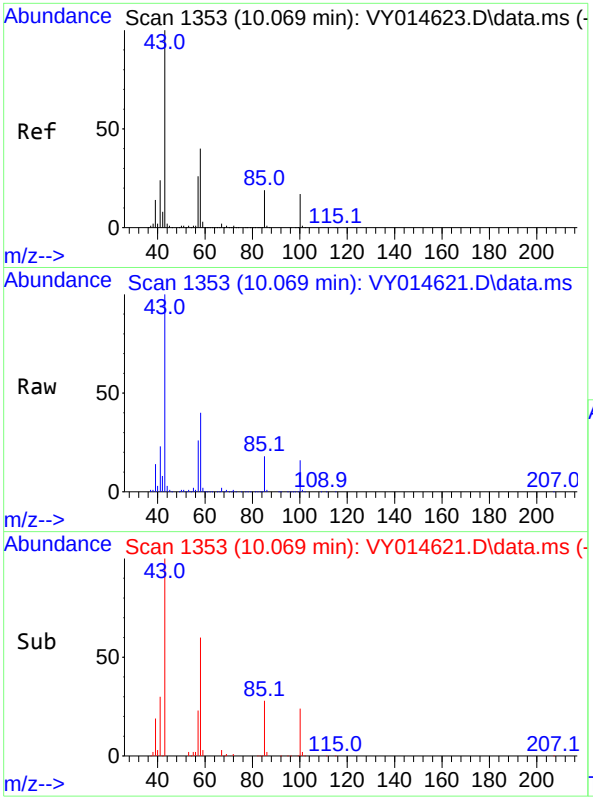


#50
Toluene-d8
Concen: 9.792 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 98 Resp: 137153

Ion	Ratio	Lower	Upper
98	100		
100	64.8	50.1	75.1

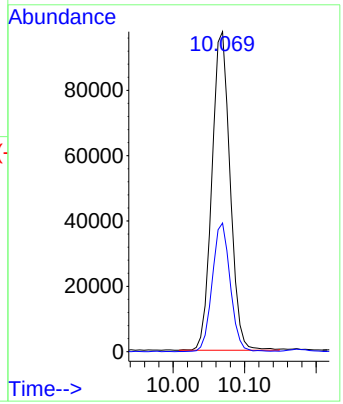




#51
4-Methyl-2-Pentanone
Concen: 43.908 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 17179

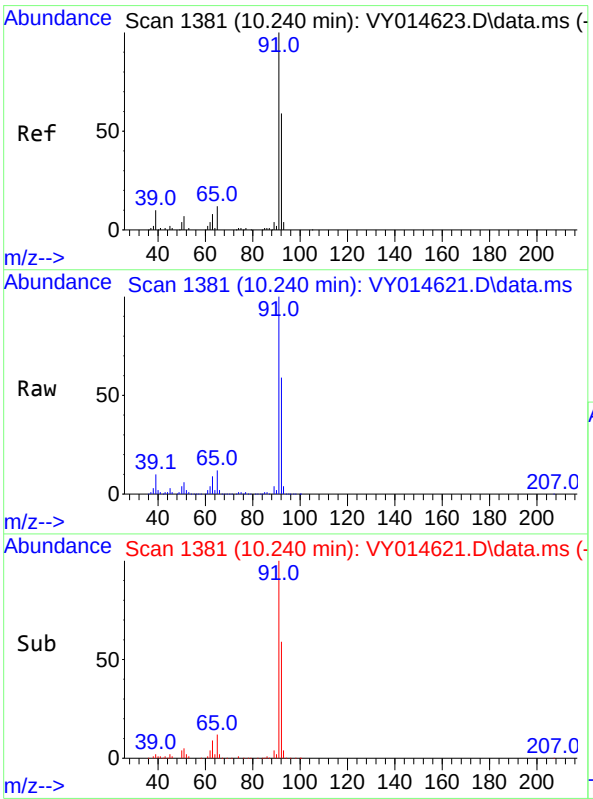
Ion	Ratio	Lower	Upper
43	100		
58	40.1	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

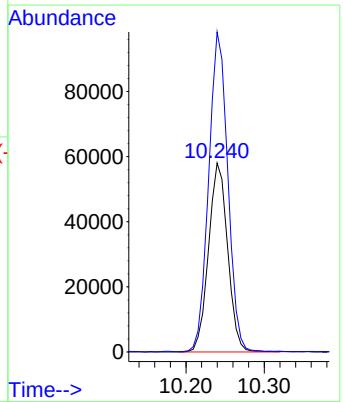
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

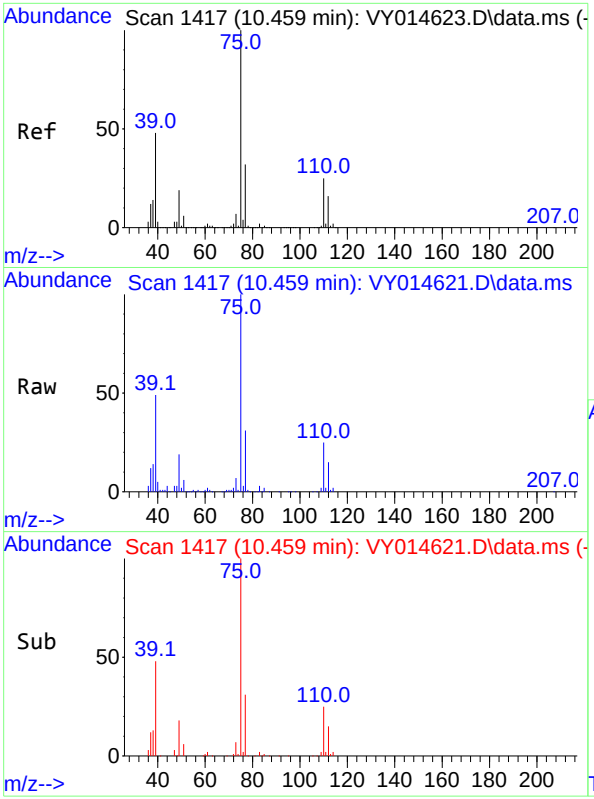


#52
Toluene
Concen: 9.506 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 92 Resp: 98292

Ion	Ratio	Lower	Upper
92	100		
91	168.8	143.8	215.6

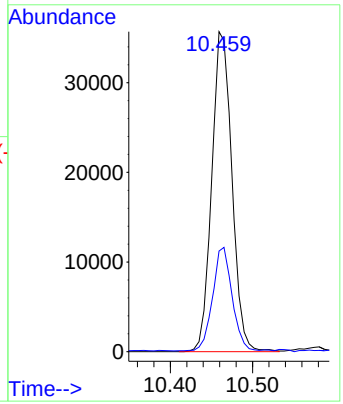




#53
t-1,3-Dichloropropene
Concen: 9.212 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 6079

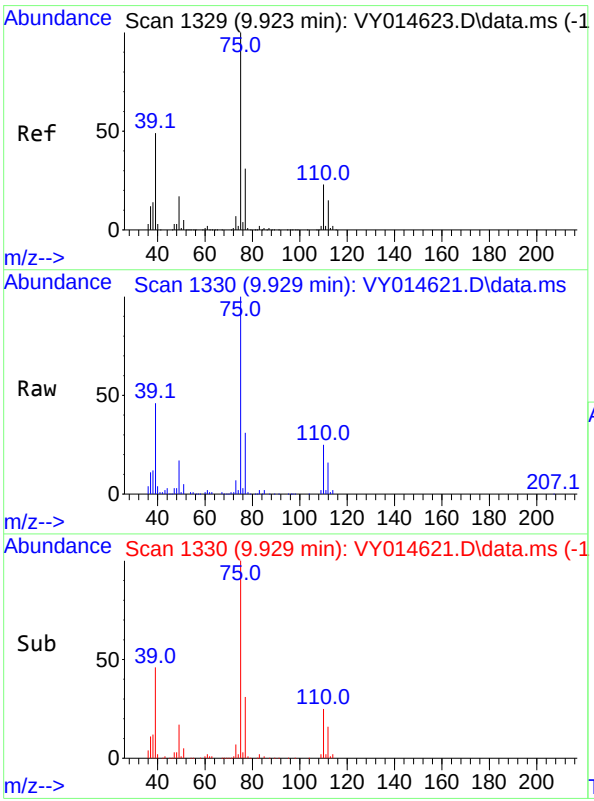
Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

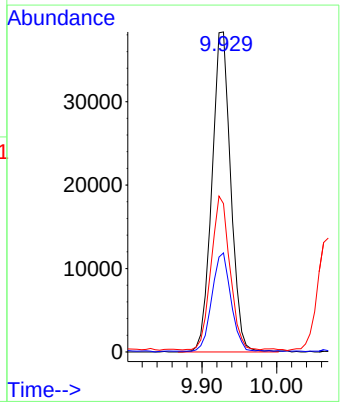
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

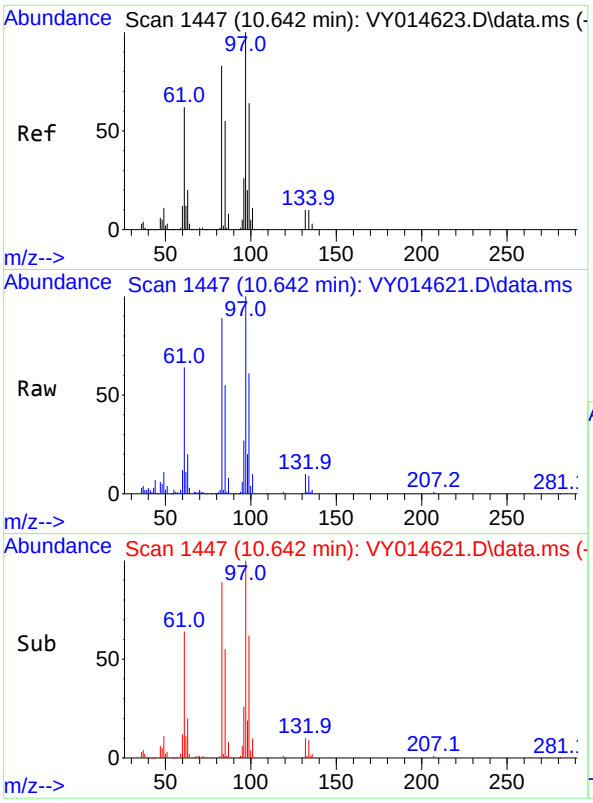


#54
cis-1,3-Dichloropropene
Concen: 9.361 ug/l
RT: 9.929 min Scan# 1330
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 67177

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.2	36.4
39	45.6	42.2	63.4

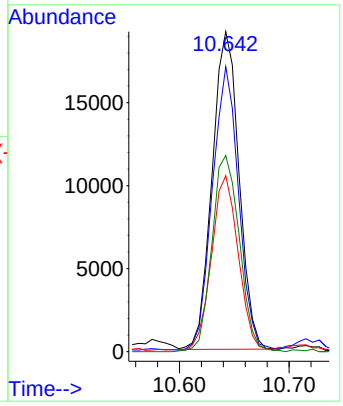




#55
1,1,2-Trichloroethane
Concen: 9.134 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 97 Resp: 3256

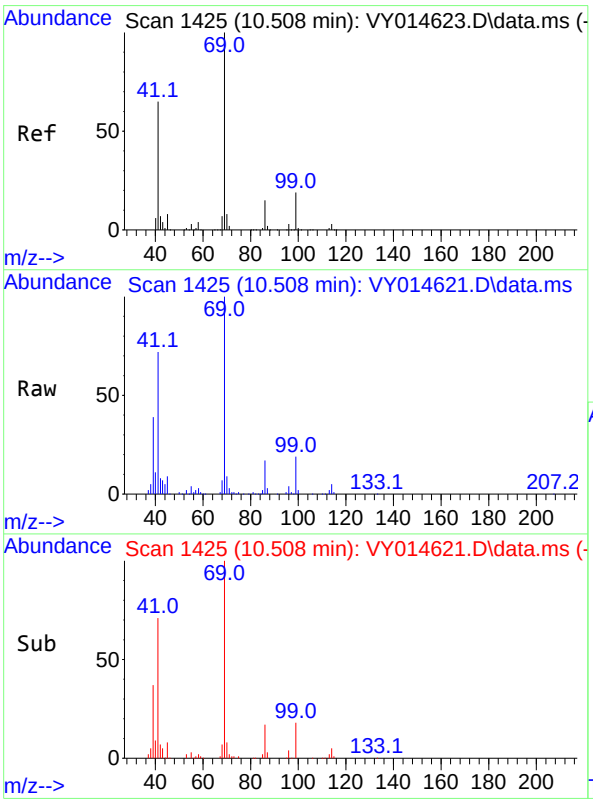
Ion	Ratio	Lower	Upper
97	100		
83	89.3	72.0	108.0
85	54.7	45.4	68.0
99	61.5	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

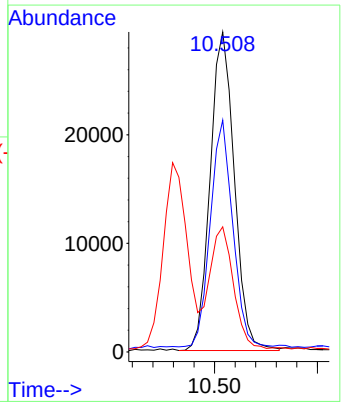
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

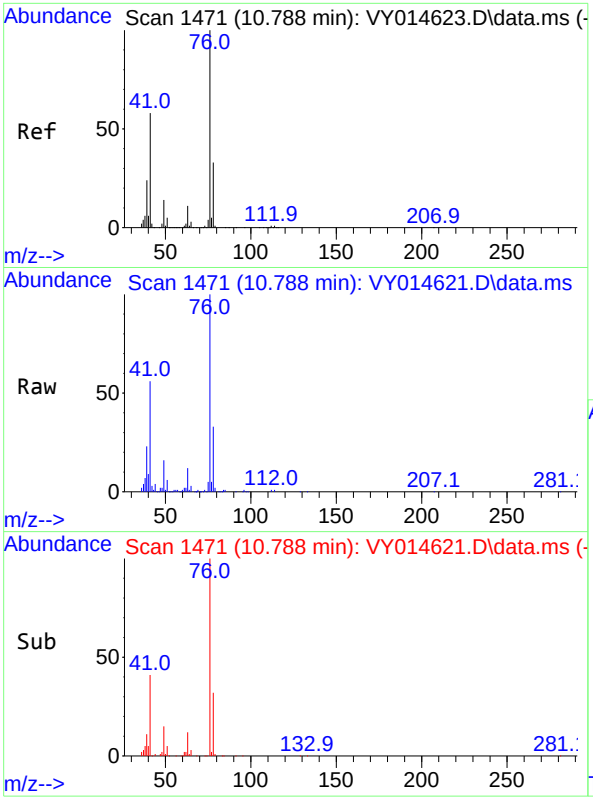


#56
Ethyl methacrylate
Concen: 8.808 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 69 Resp: 47950

Ion	Ratio	Lower	Upper
69	100		
41	65.8	57.6	86.4
39	38.2	34.1	51.1

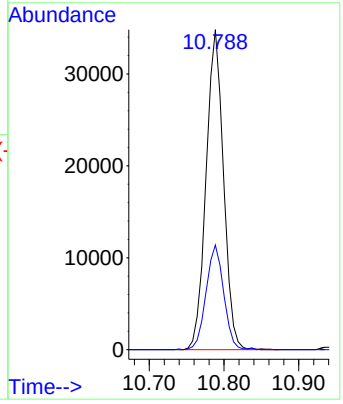




#57
1,3-Dichloropropane
Concen: 9.152 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 76 Resp: 5628

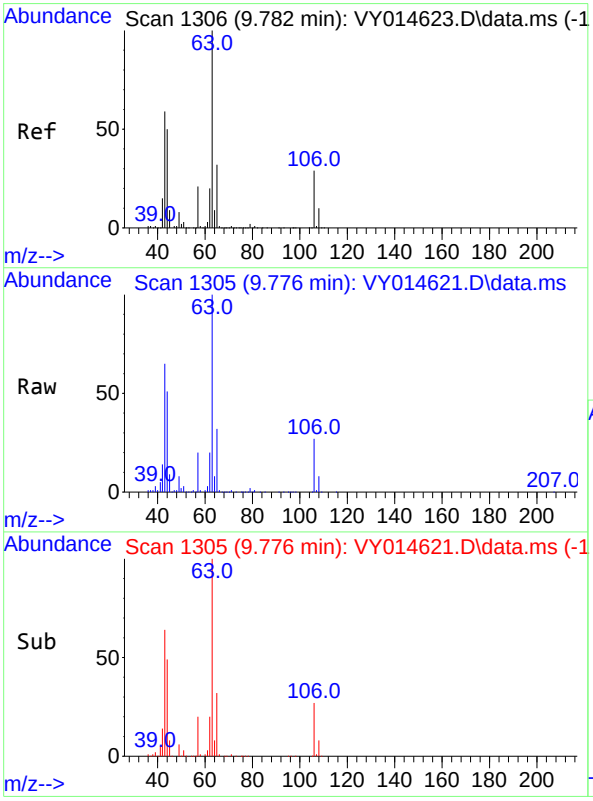
Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

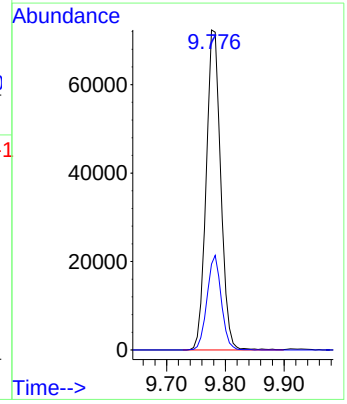
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

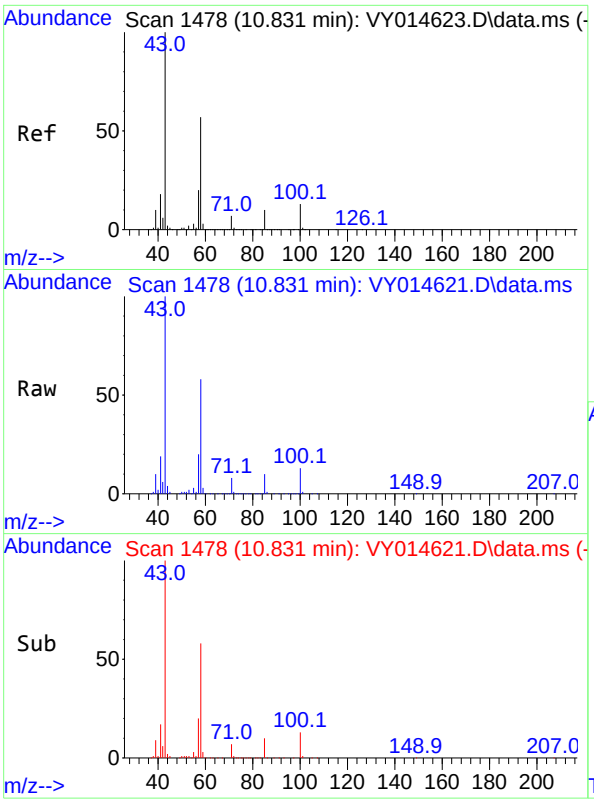


#58
2-Chloroethyl Vinyl ether
Concen: 49.168 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 63 Resp: 124725

Ion	Ratio	Lower	Upper
63	100		
106	28.9	21.2	31.8





#59
2-Hexanone
Concen: 42.968 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

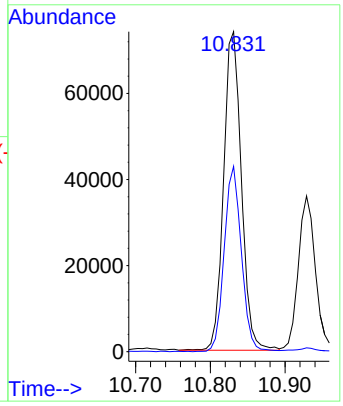
Tgt Ion: 43 Resp: 12259

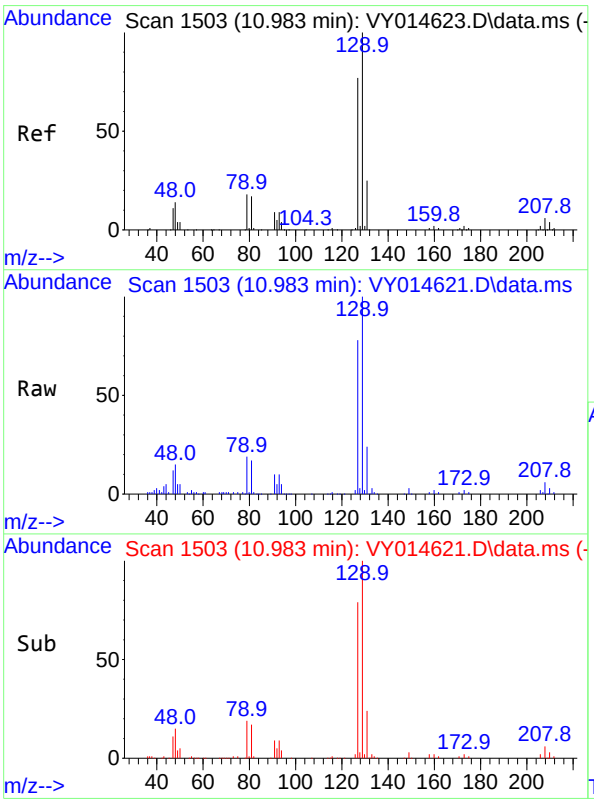
Ion	Ratio	Lower	Upper
43	100		
58	56.3	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

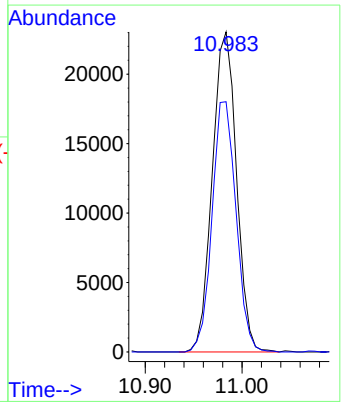


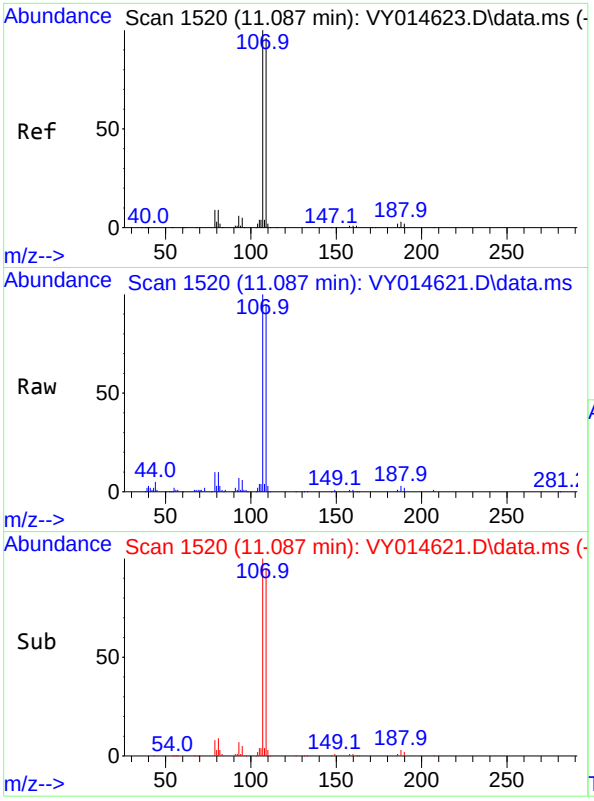


#60
Dibromochloromethane
Concen: 9.148 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:129 Resp: 39992

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5

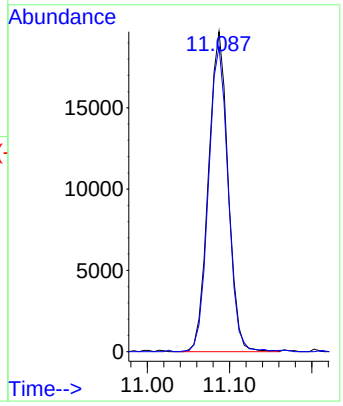




#61
1,2-Dibromoethane
Concen: 9.157 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:107 Resp: 3257

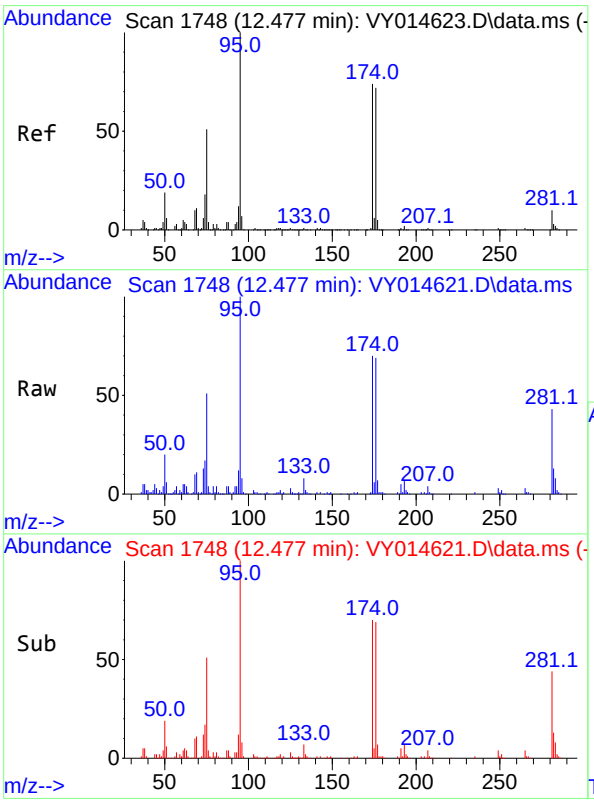
Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

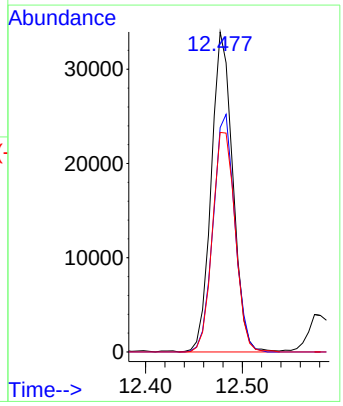
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

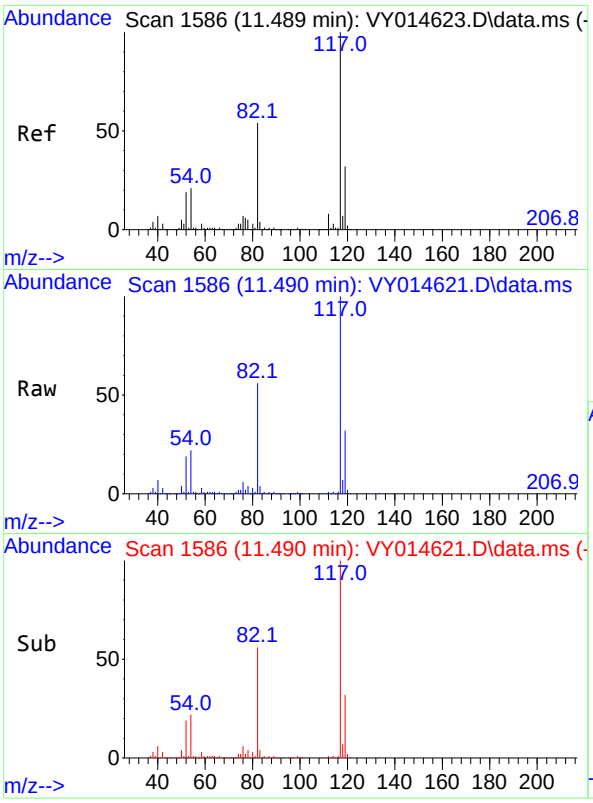


#62
4-Bromofluorobenzene
Concen: 9.784 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 95 Resp: 52548

Ion	Ratio	Lower	Upper
95	100		
174	74.6	0.0	178.2
176	72.3	0.0	173.8

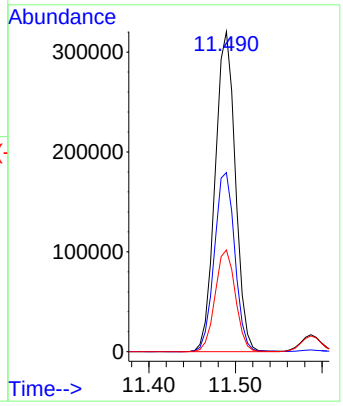




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:117 Resp: 51907

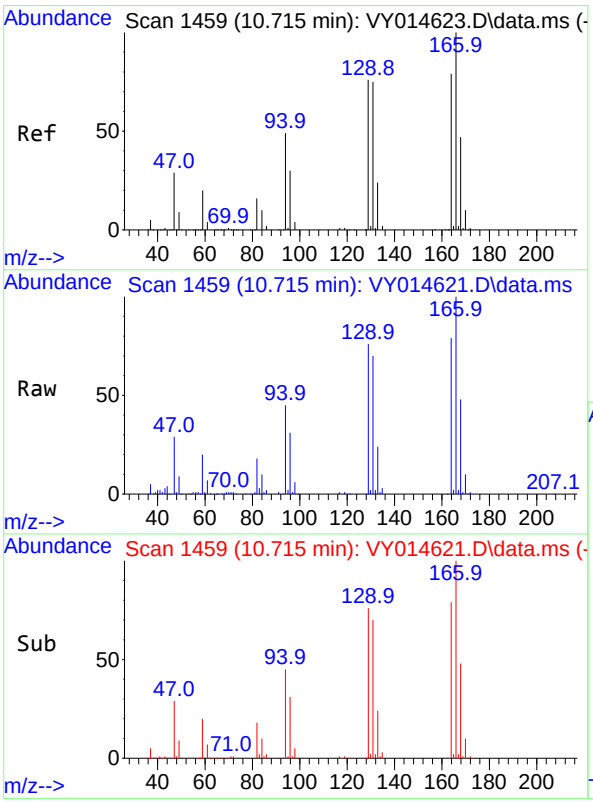
Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.4	65.0
119	31.8	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

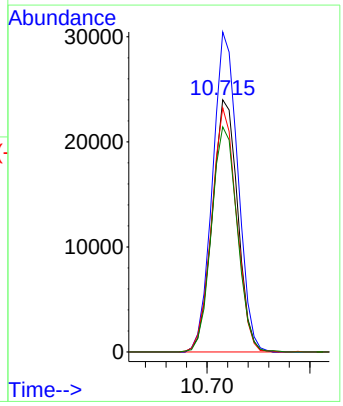
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

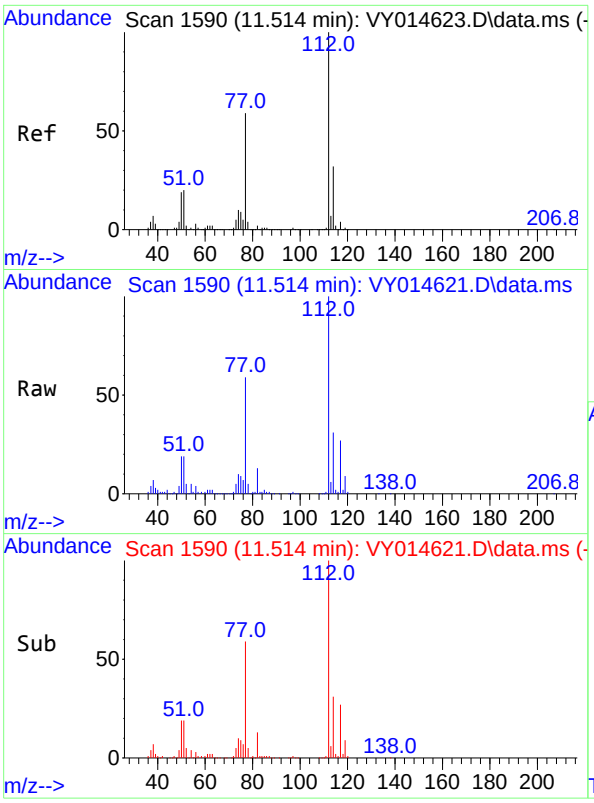


#64
Tetrachloroethene
Concen: 9.812 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:164 Resp: 40964

Ion	Ratio	Lower	Upper
164	100		
166	126.9	103.0	154.6
129	96.8	77.2	115.8
131	89.3	69.6	104.4

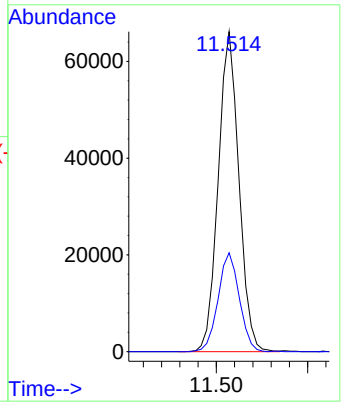




#65
Chlorobenzene
Concen: 9.398 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:112 Resp: 10395

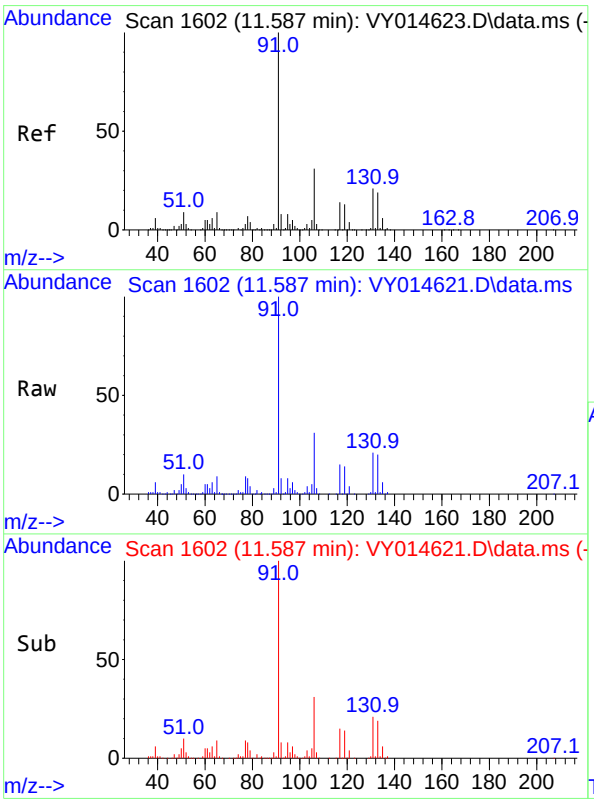
Ion	Ratio	Lower	Upper
112	100		
114	30.9	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

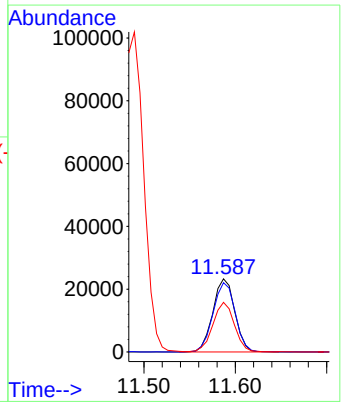
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

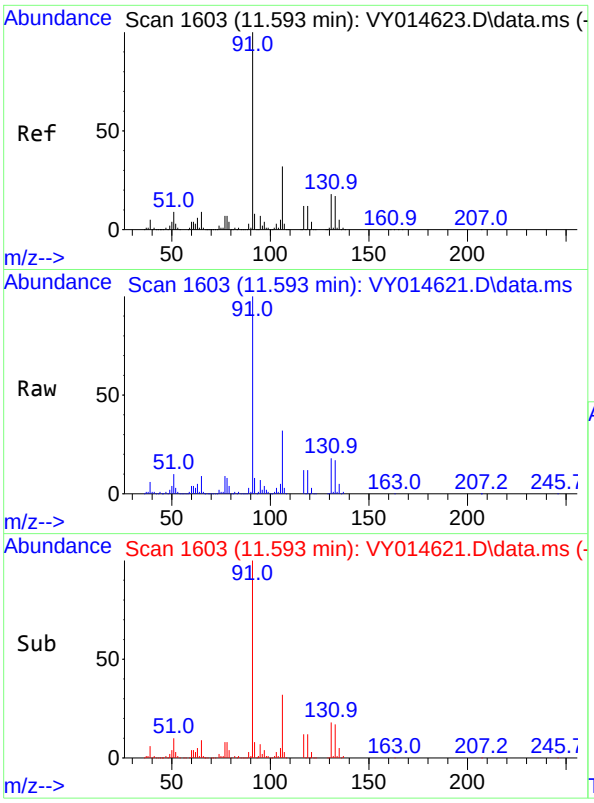


#66
1,1,1,2-Tetrachloroethane
Concen: 9.267 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:131 Resp: 38649

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.5	142.6
119	66.4	31.6	94.7

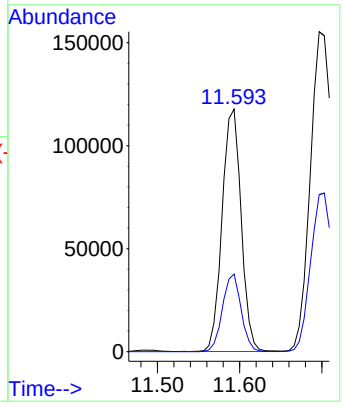




#67
Ethyl Benzene
Concen: 9.498 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 91 Resp: 18968

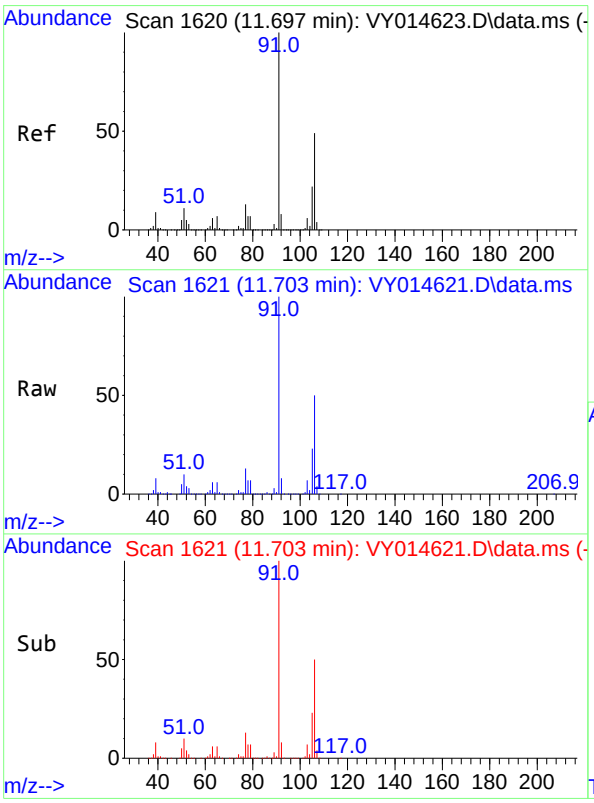
Ion	Ratio	Lower	Upper
91	100		
106	32.0	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

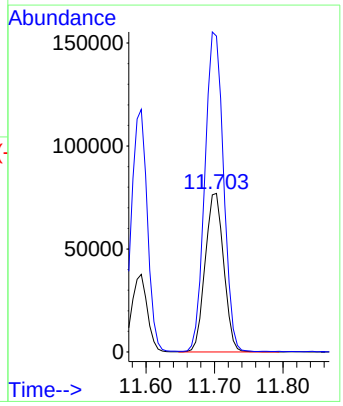
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

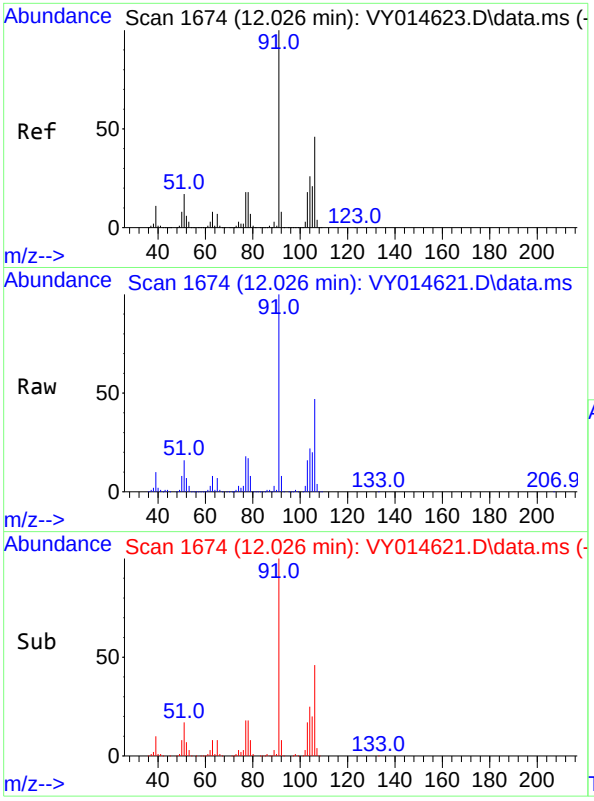


#68
m/p-Xylenes
Concen: 19.050 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:106 Resp: 145226

Ion	Ratio	Lower	Upper
106	100		
91	202.2	166.1	249.1





#69
o-Xylene
Concen: 9.402 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

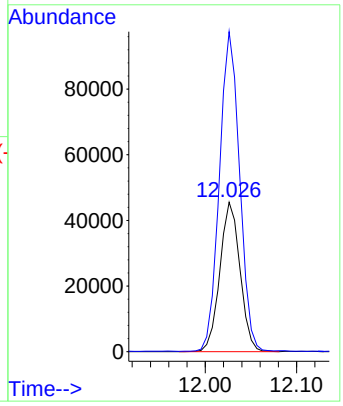
Tgt Ion:106 Resp: 6981

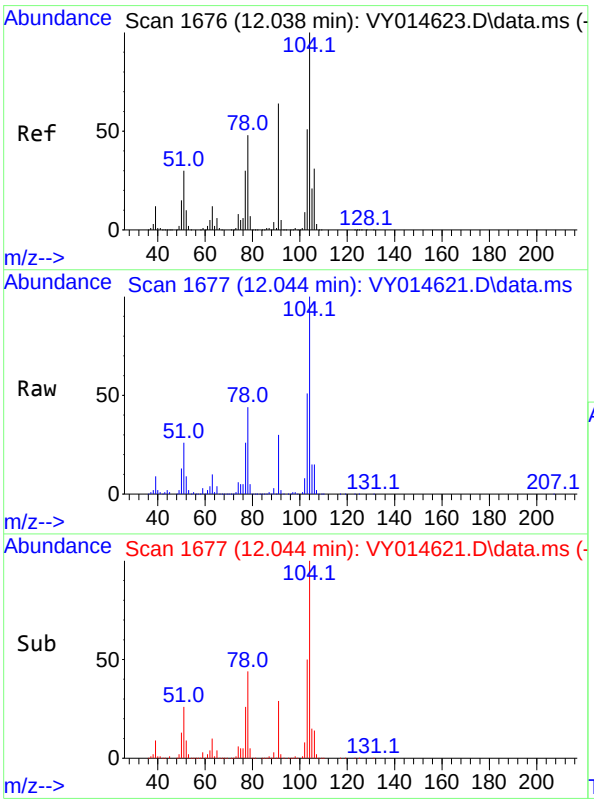
Ion	Ratio	Lower	Upper
106	100		
91	214.5	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

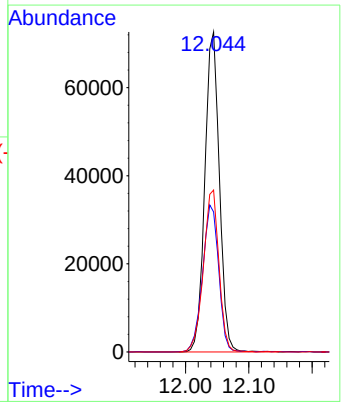


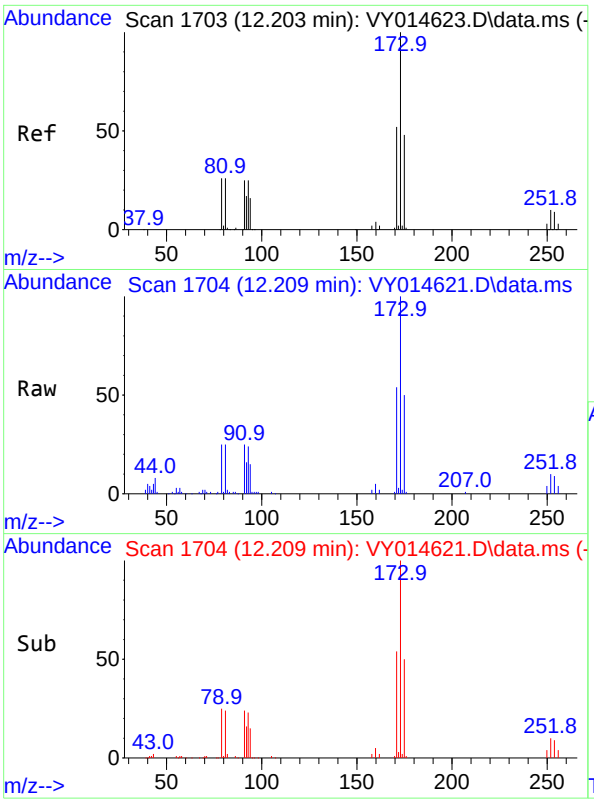


#70
Styrene
Concen: 9.308 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:104 Resp: 116487

Ion	Ratio	Lower	Upper
104	100		
78	51.0	41.5	62.3
103	54.0	44.6	67.0

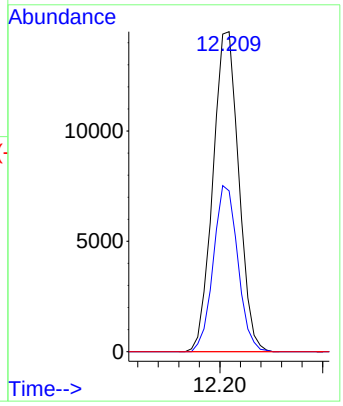




#71
Bromoform
Concen: 8.939 ug/l
RT: 12.209 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:173 Resp: 2527

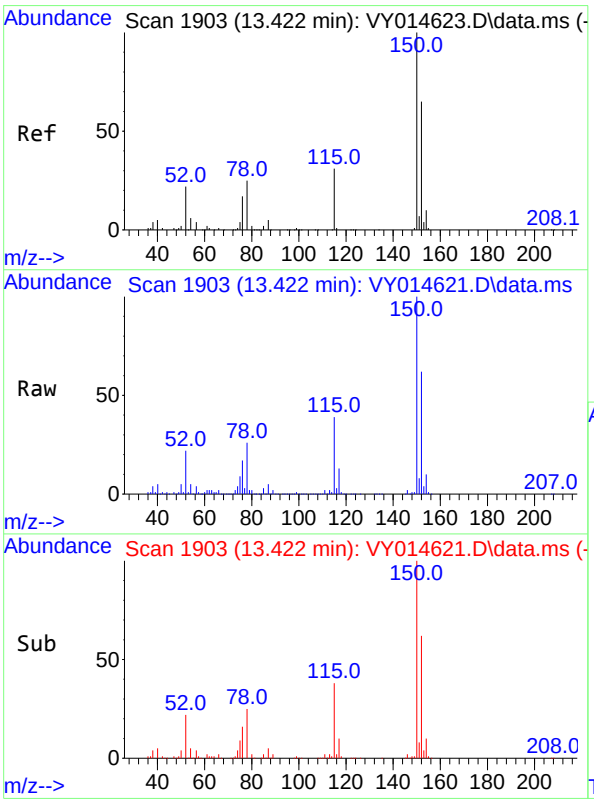
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

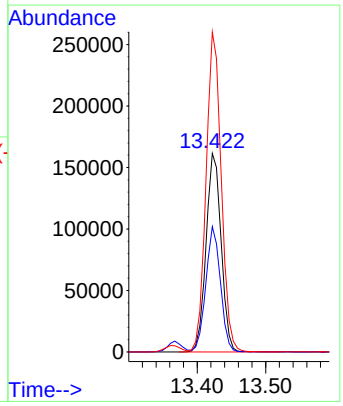
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

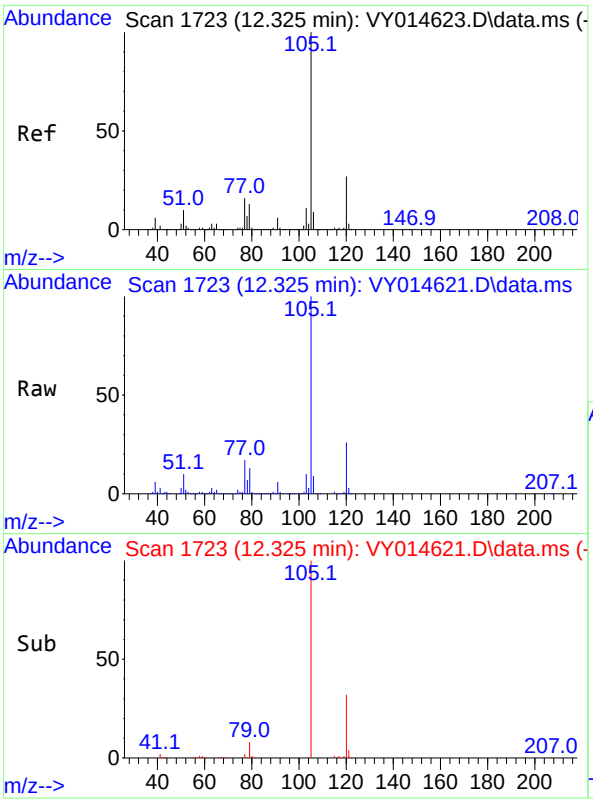


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:152 Resp: 247152

Ion	Ratio	Lower	Upper
152	100		
115	61.0	28.8	86.5
150	161.8	0.0	348.8

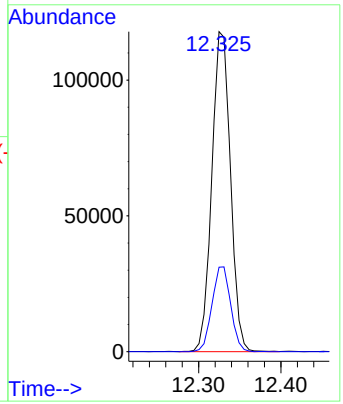




#73
Isopropylbenzene
Concen: 9.582 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:105 Resp: 18542

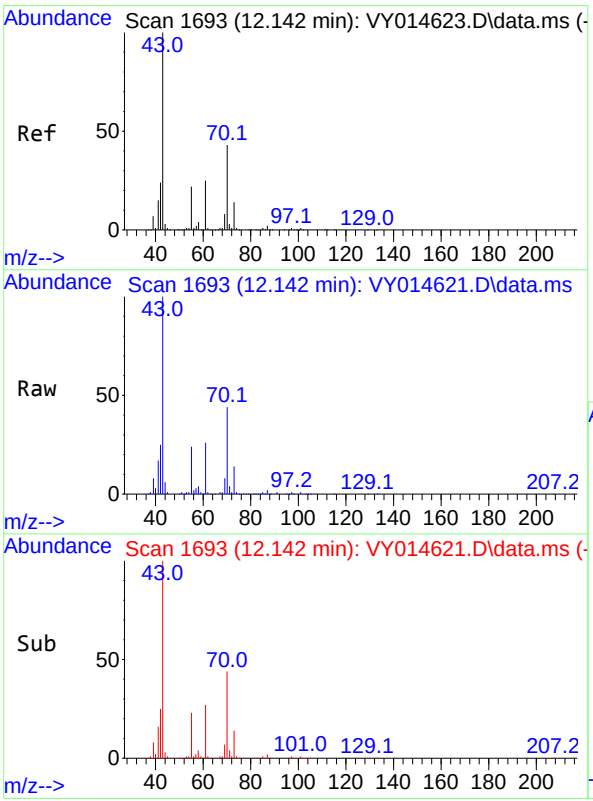
Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

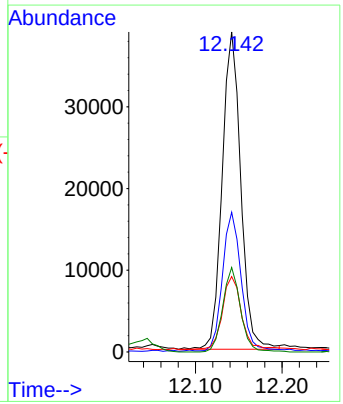
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

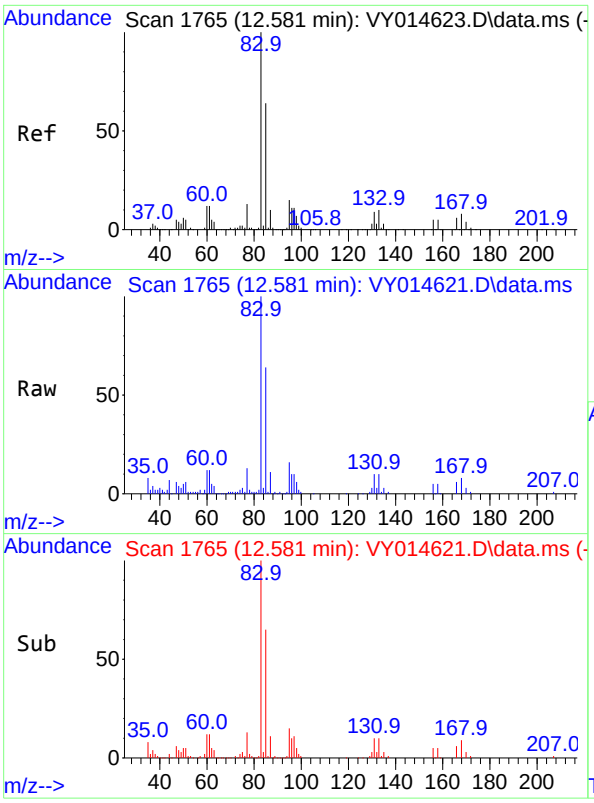


#74
N-amyl acetate
Concen: 8.941 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 43 Resp: 57952

Ion	Ratio	Lower	Upper
43	100		
70	43.8	29.7	44.5
55	24.1	18.3	27.5
61	25.4	17.5	26.3

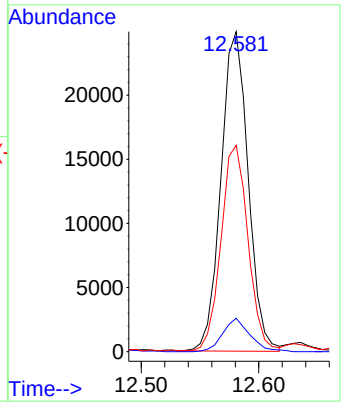




#75
1,1,2,2-Tetrachloroethane
Concen: 9.065 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 83 Resp: 4000

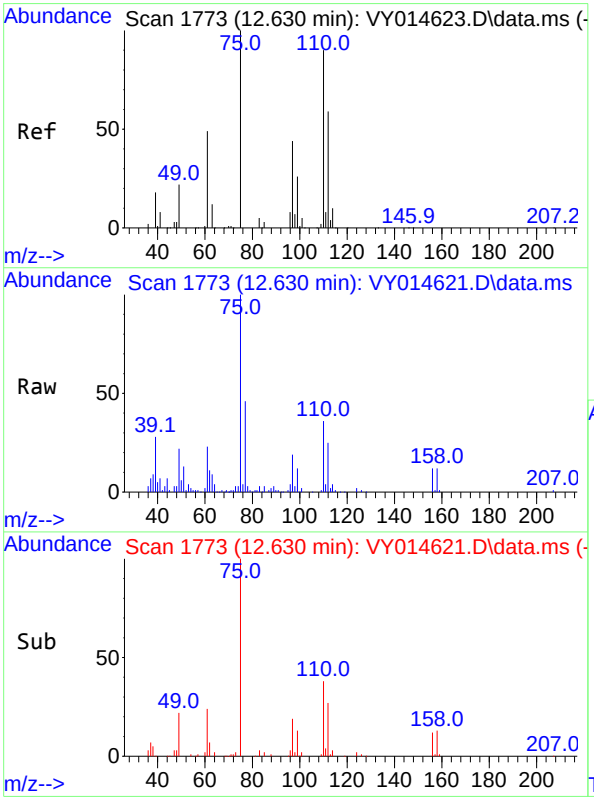
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.4	16.2
85	63.7	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

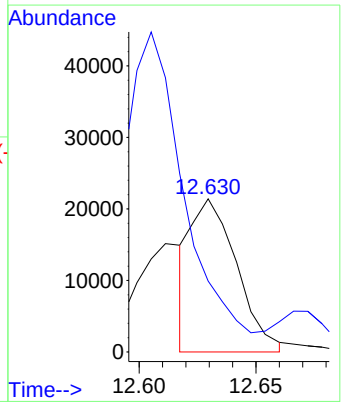
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

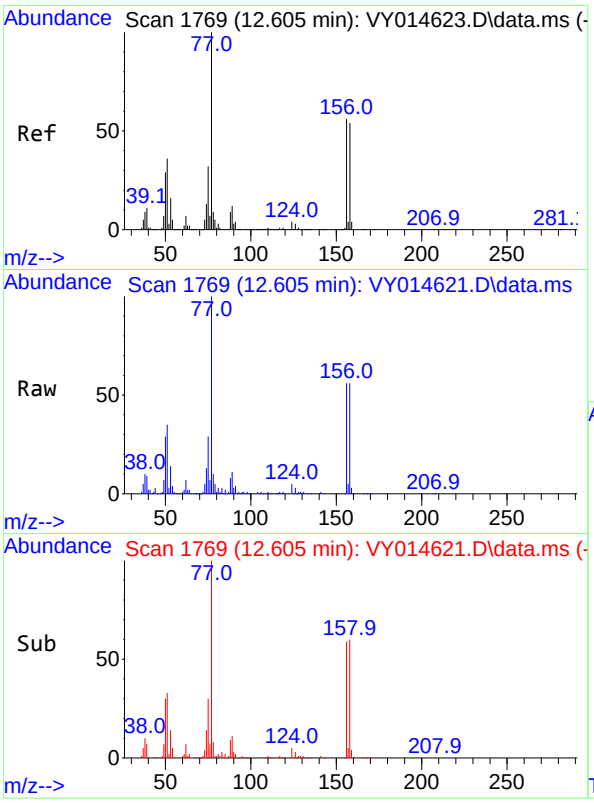


#76
1,2,3-Trichloropropane
Concen: 9.201 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 29102

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

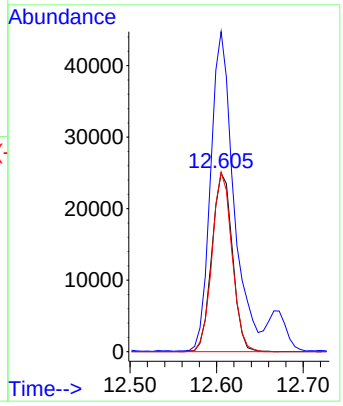




#77
Bromobenzene
Concen: 9.313 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:156 Resp: 4114

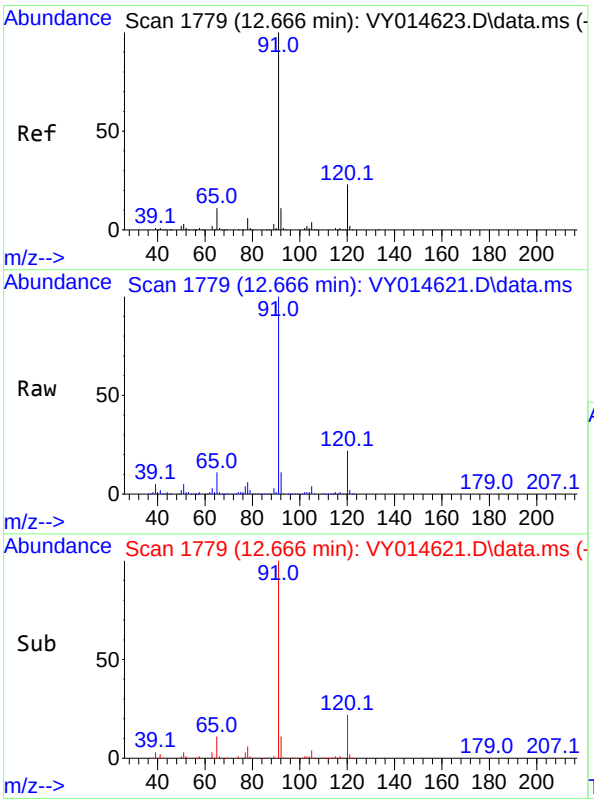
Ion	Ratio	Lower	Upper
156	100		
77	200.1	92.8	278.6
158	97.9	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

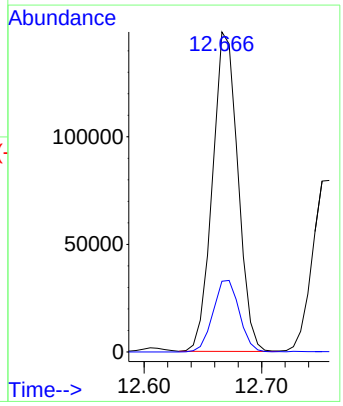
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

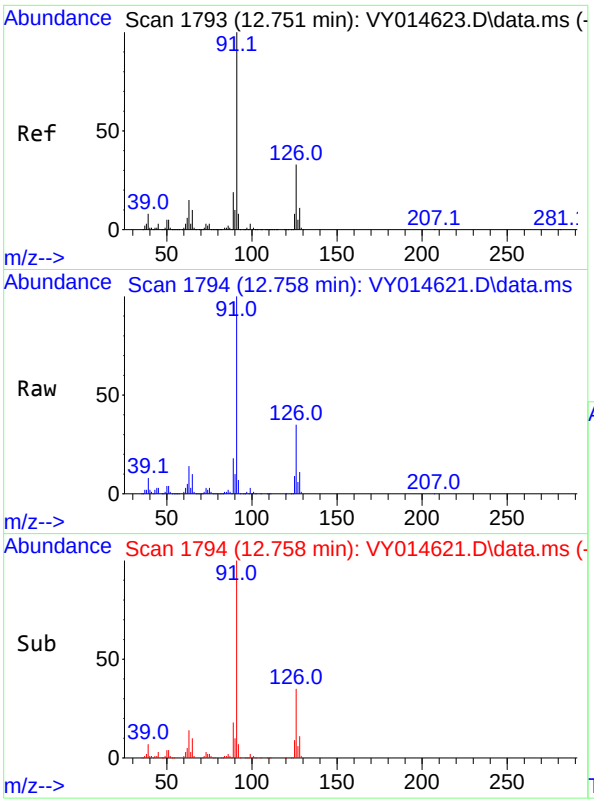


#78
n-propylbenzene
Concen: 9.563 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 91 Resp: 223016

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4

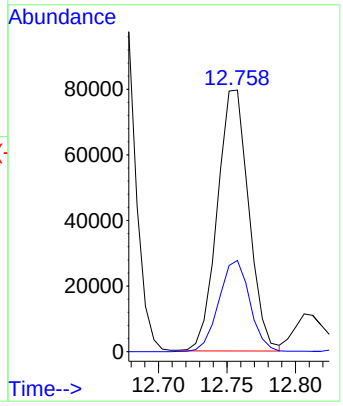




#79
2-Chlorotoluene
Concen: 9.471 ug/l
RT: 12.758 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 91 Resp: 12721

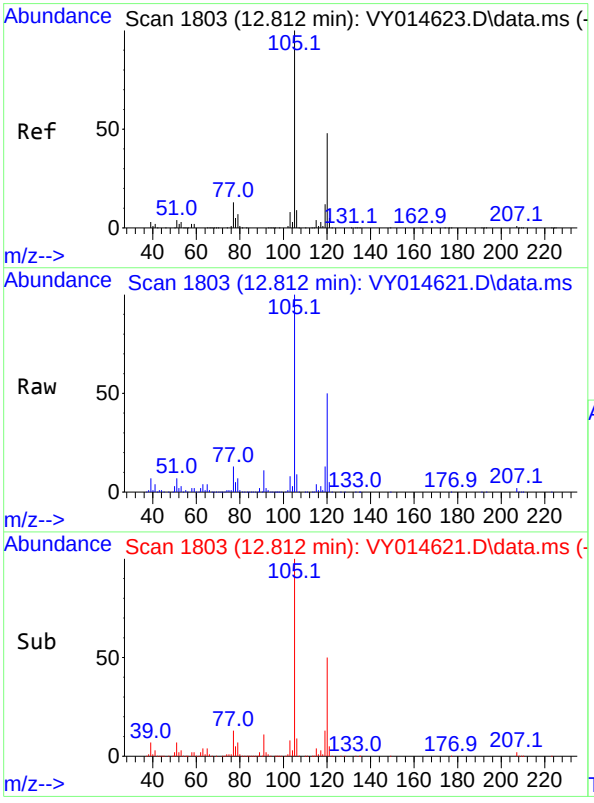
Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.3	51.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

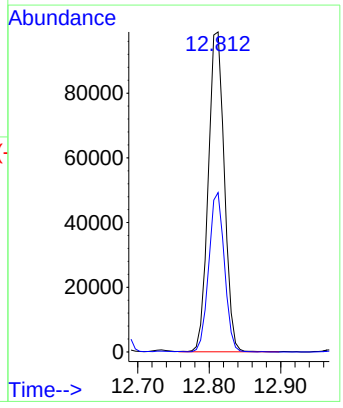
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

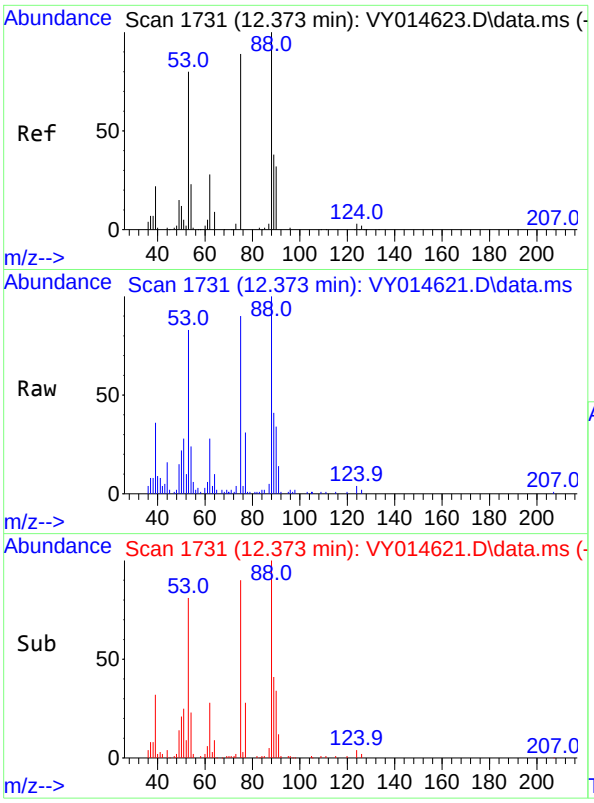


#80
1,3,5-Trimethylbenzene
Concen: 9.513 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:105 Resp: 153741

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.9	71.7

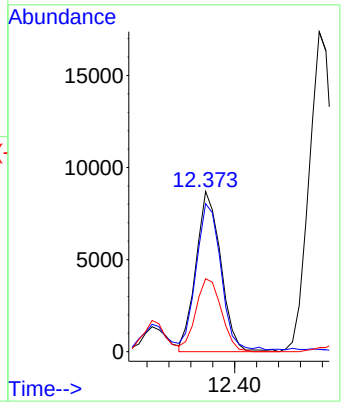




#81
trans-1,4-Dichloro-2-butene
Concen: 8.511 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 1372

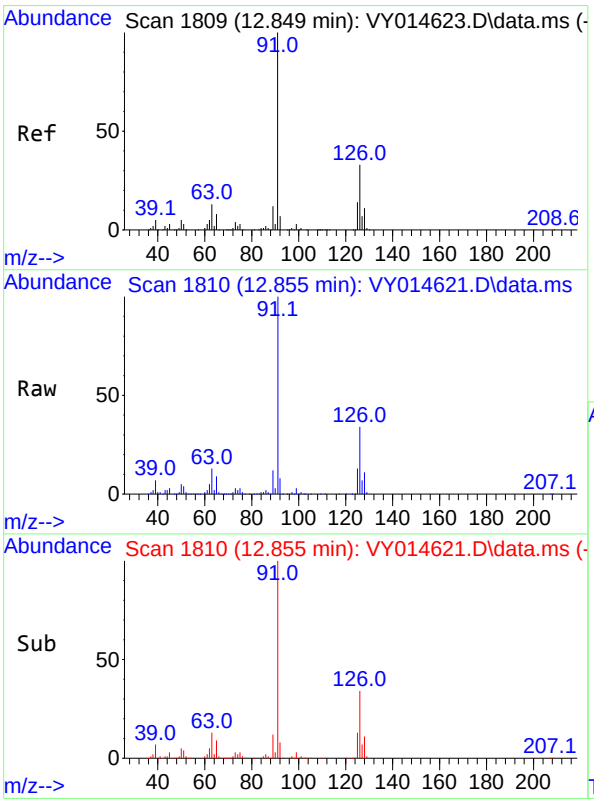
Ion	Ratio	Lower	Upper
75	100		
53	90.1	77.8	116.8
89	46.8	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

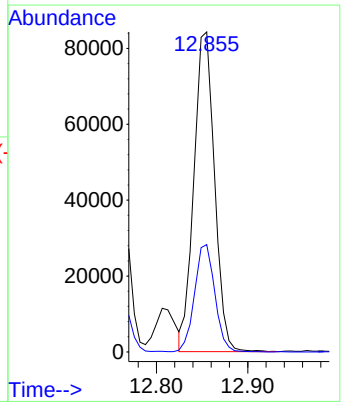
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

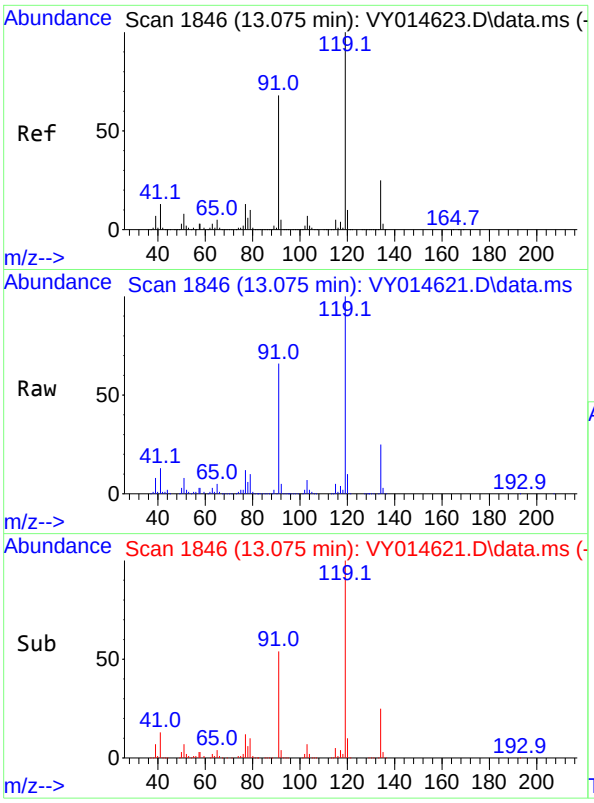


#82
4-Chlorotoluene
Concen: 9.542 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 91 Resp: 131997

Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.2	51.6

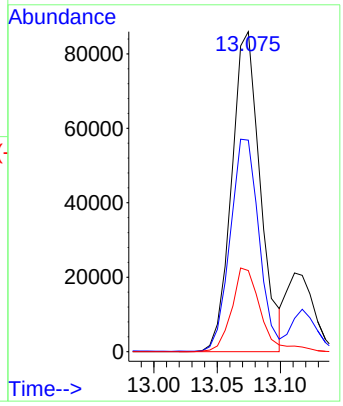




#83
tert-Butylbenzene
Concen: 9.452 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:119 Resp: 13551

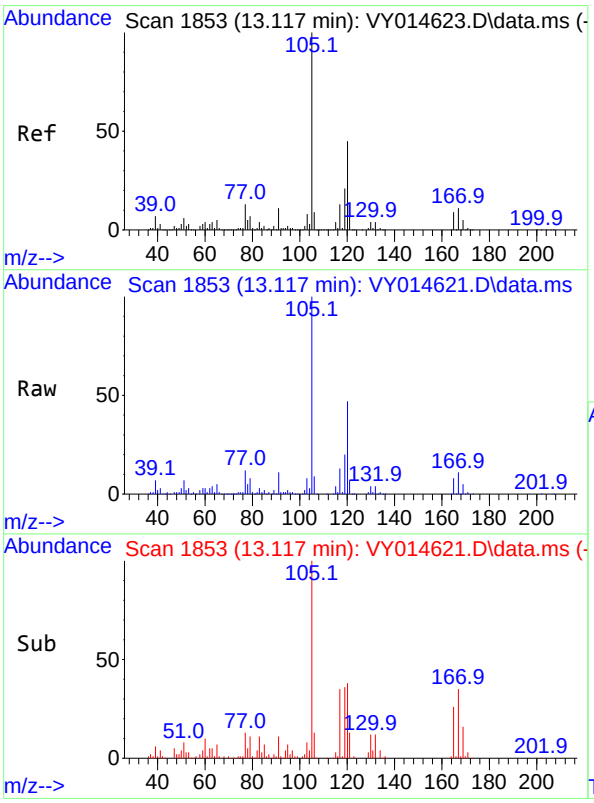
Ion	Ratio	Lower	Upper
119	100		
91	66.5	32.9	98.6
134	26.6	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

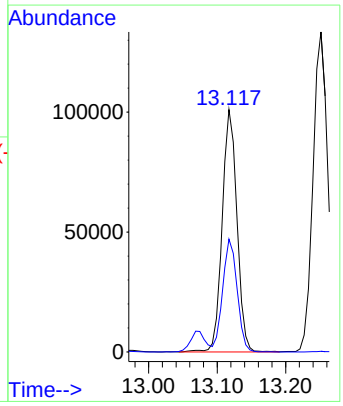
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

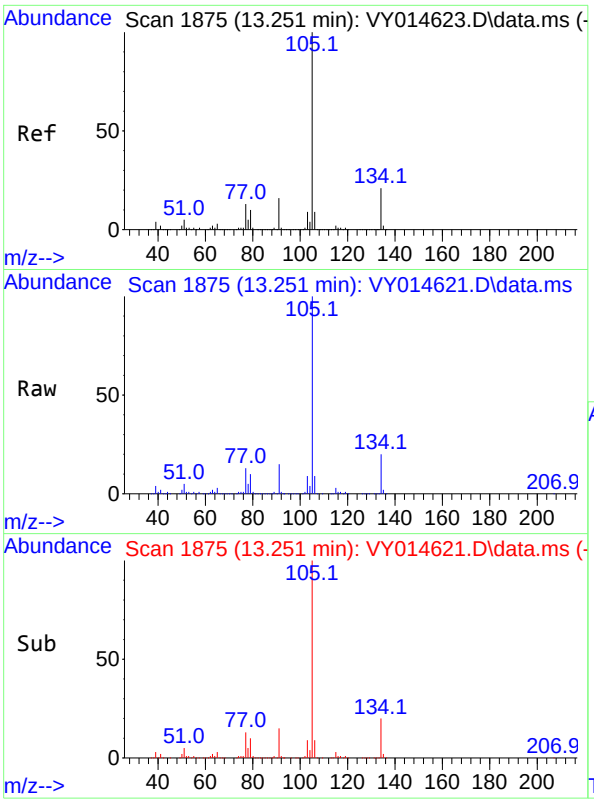


#84
1,2,4-Trimethylbenzene
Concen: 9.517 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:105 Resp: 150941

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.2	66.6

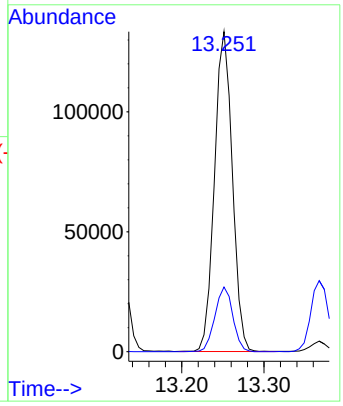




#85
sec-Butylbenzene
Concen: 9.562 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:105 Resp: 20109

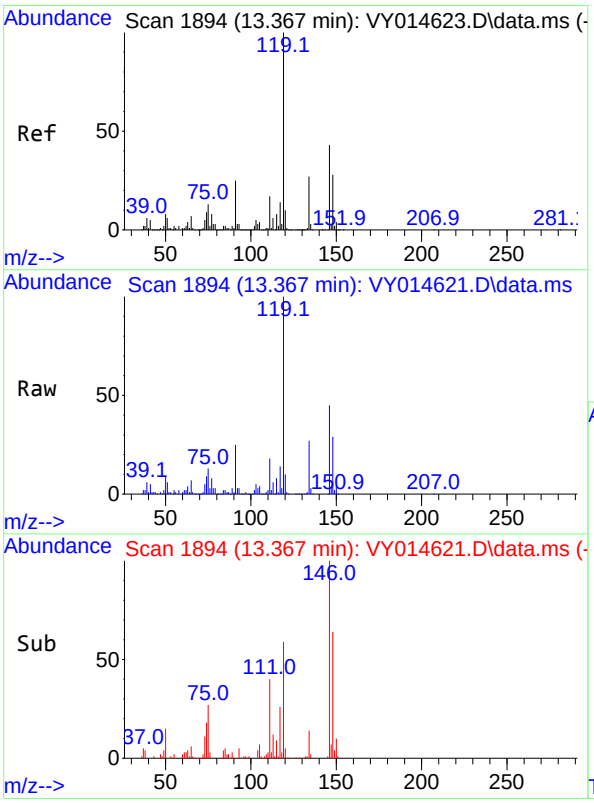
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

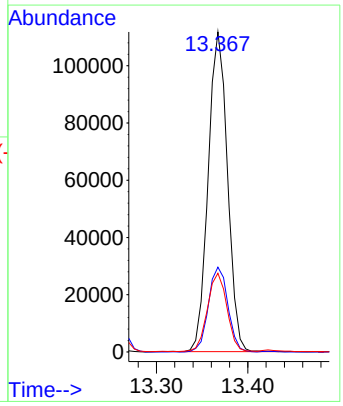
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

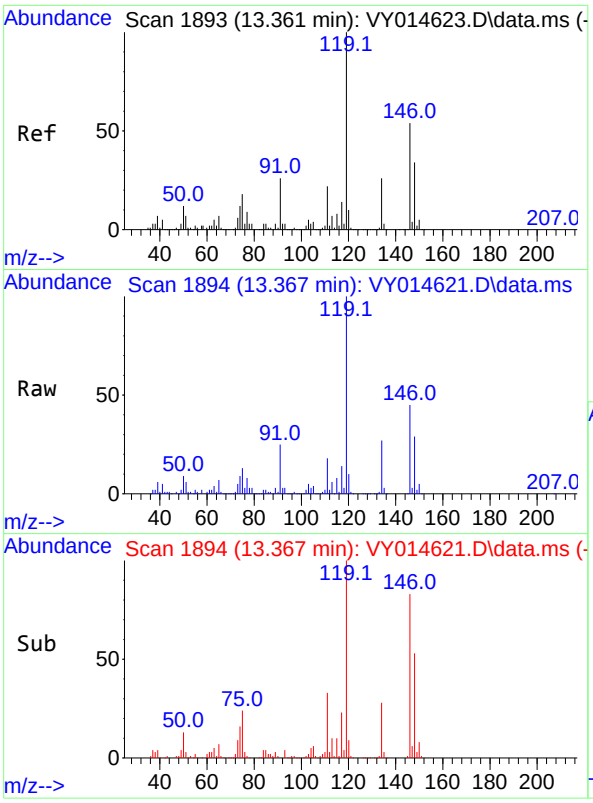


#86
p-Isopropyltoluene
Concen: 9.519 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:119 Resp: 163449

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.3	39.8
91	24.6	12.4	37.4

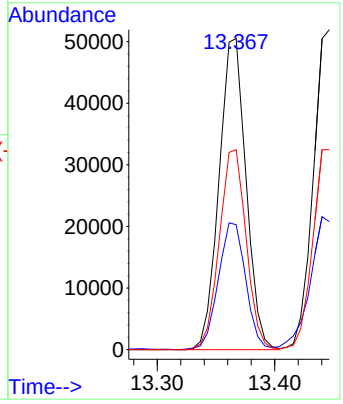




#87
1,3-Dichlorobenzene
Concen: 9.388 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:146 Resp: 8071

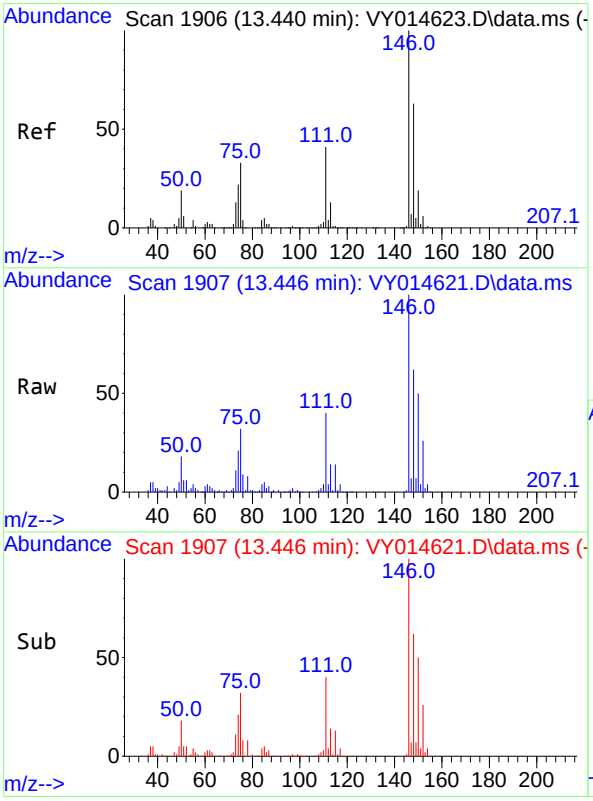
Ion	Ratio	Lower	Upper
146	100		
111	41.4	19.4	58.2
148	64.0	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

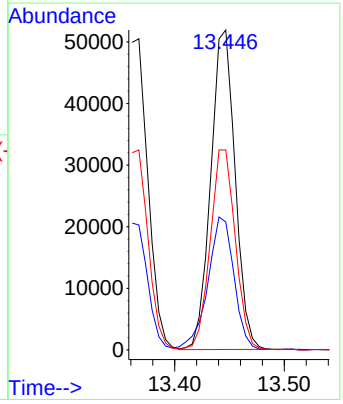
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

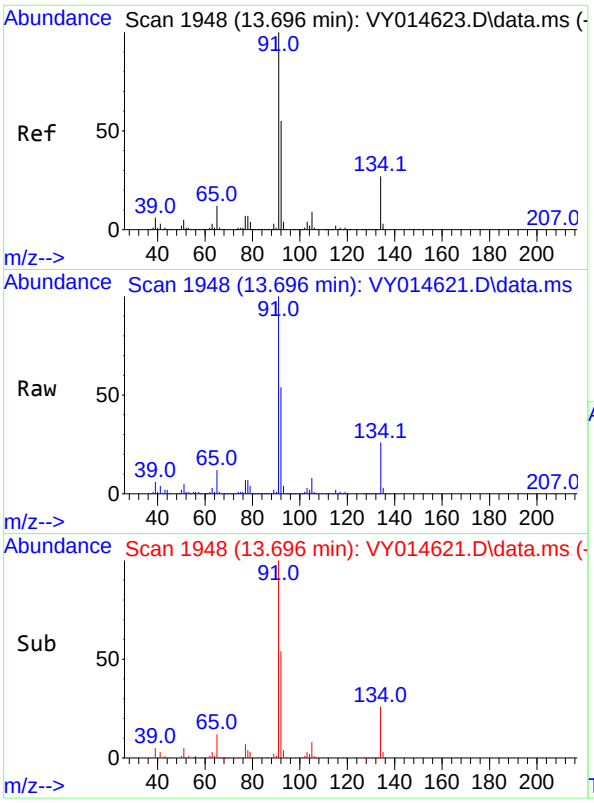


#88
1,4-Dichlorobenzene
Concen: 9.315 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:146 Resp: 80252

Ion	Ratio	Lower	Upper
146	100		
111	44.5	18.9	56.7
148	64.3	32.1	96.5

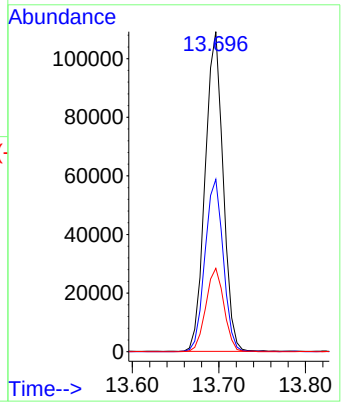




#89
n-Butylbenzene
Concen: 9.414 ug/l
RT: 13.696 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 91 Resp: 15726

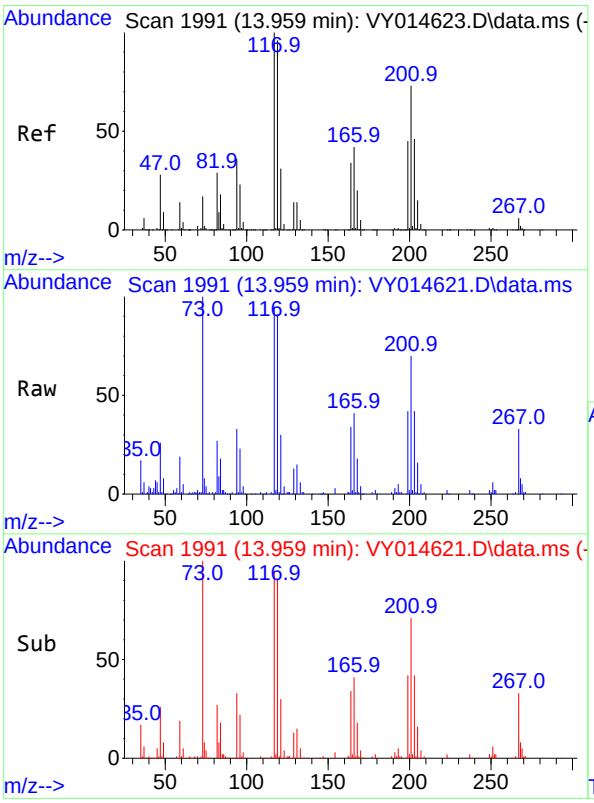
Ion	Ratio	Lower	Upper
91	100		
92	54.9	25.4	76.0
134	26.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

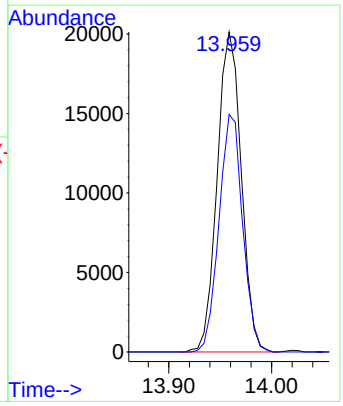
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

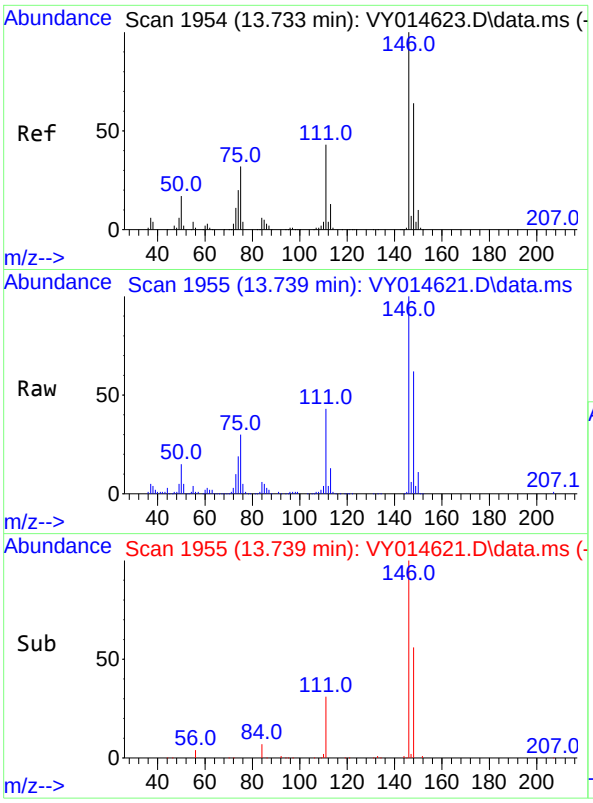


#90
Hexachloroethane
Concen: 9.260 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:117 Resp: 32661

Ion	Ratio	Lower	Upper
117	100		
201	73.1	41.6	124.8

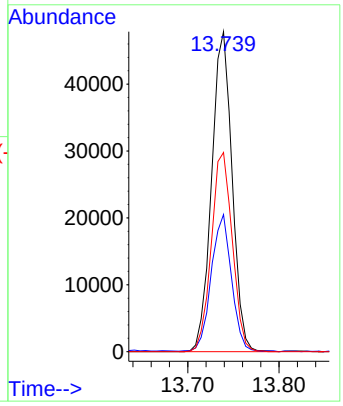




#91
1,2-Dichlorobenzene
Concen: 9.429 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:146 Resp: 7427

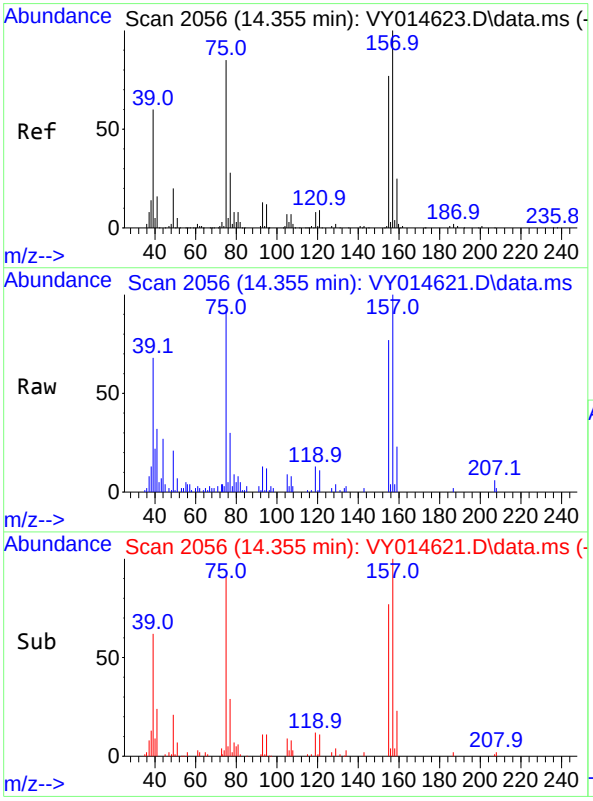
Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.7	59.0
148	64.0	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

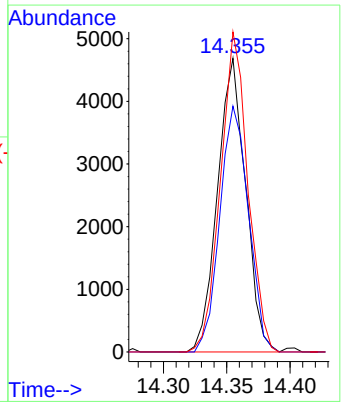
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

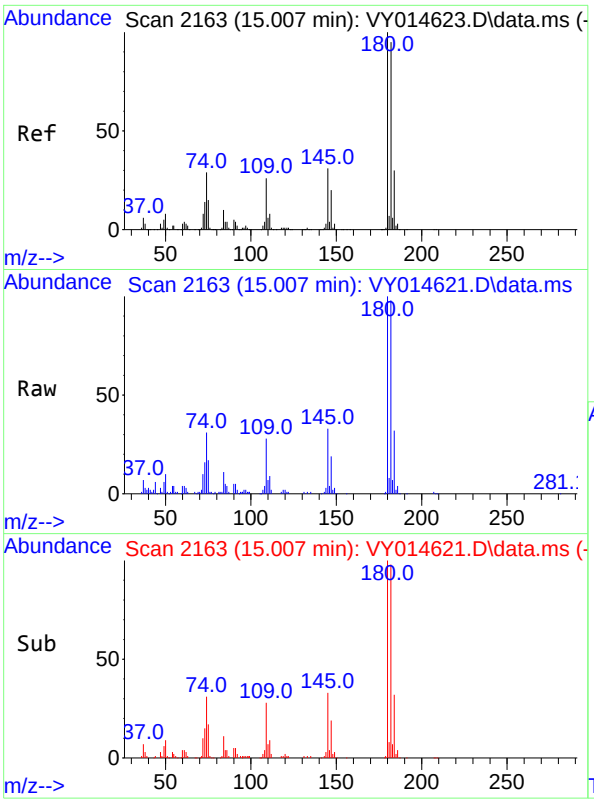


#92
1,2-Dibromo-3-Chloropropane
Concen: 8.587 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion: 75 Resp: 7247

Ion	Ratio	Lower	Upper
75	100		
155	85.3	41.5	124.6
157	106.1	51.8	155.5

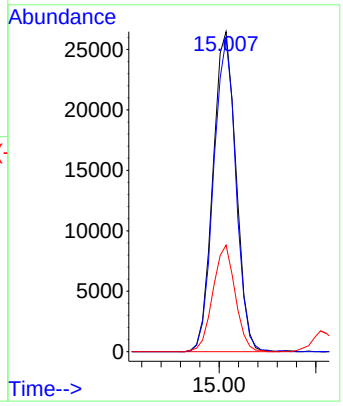




#93
1,2,4-Trichlorobenzene
Concen: 8.739 ug/l
RT: 15.007 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:180 Resp: 4369

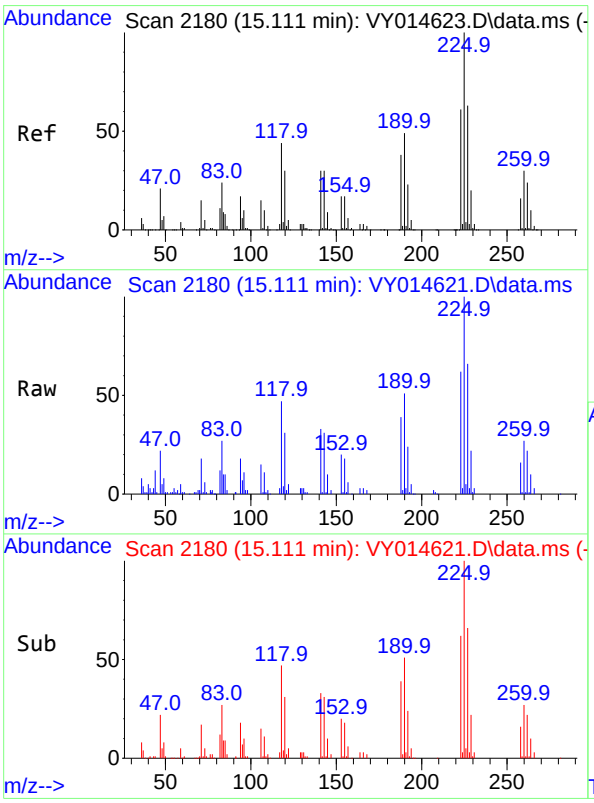
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.0	141.2
145	32.3	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

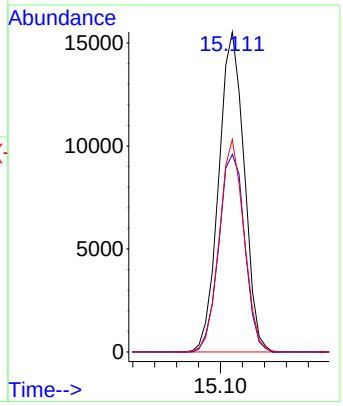
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

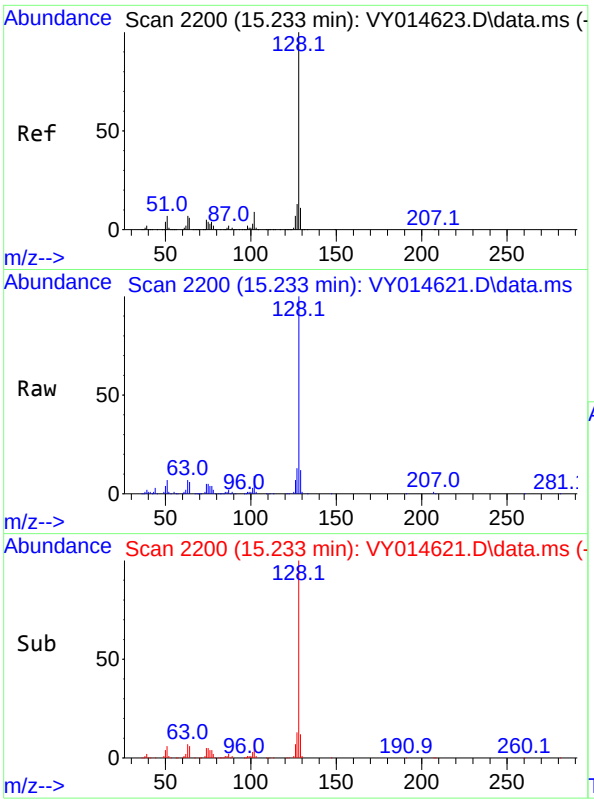


#94
Hexachlorobutadiene
Concen: 9.104 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:225 Resp: 25017

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.9
227	64.4	33.0	98.9

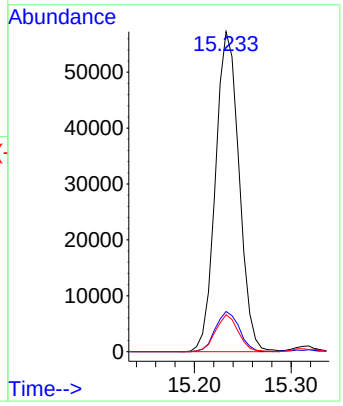




#95
Naphthalene
Concen: 8.302 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:128 Resp: 9671

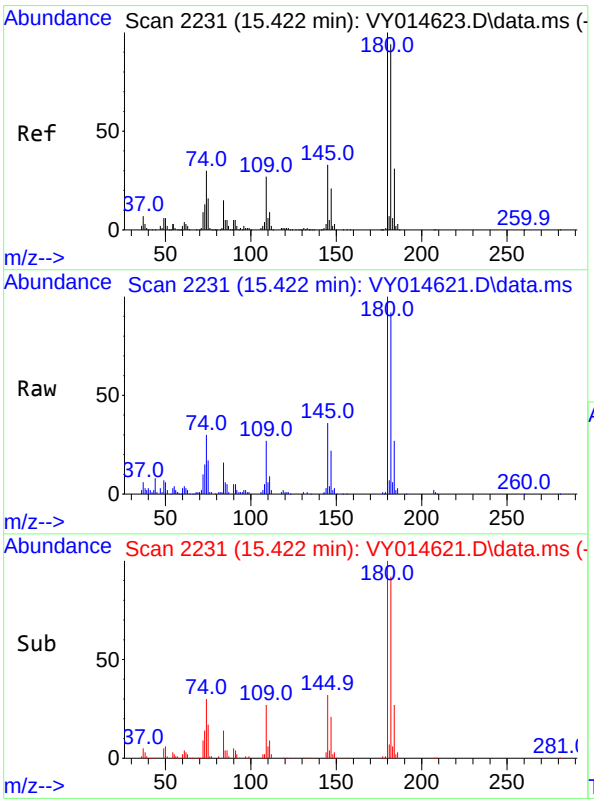
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.8	16.2
129	11.2	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

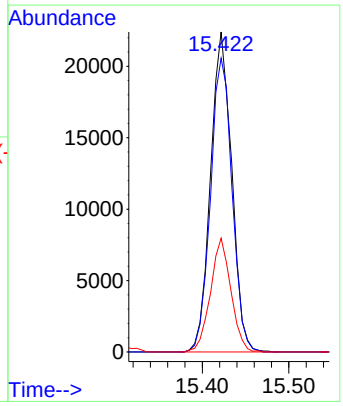
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 8.541 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014621.D
Acq: 13 Jul 2023 09:31

Tgt Ion:180 Resp: 37957

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.3	141.8
145	34.5	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014623.D
Acq On : 13 Jul 2023 10:19
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	344513	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	563137	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	498491	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	242799	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	192669	49.077	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.160%			
35) Dibromofluoromethane	7.716	113	181093	50.517	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.040%			
50) Toluene-d8	10.179	98	659534	49.903	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.477	95	250009	49.334	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	133857	47.690	ug/l	97
3) Chloromethane	2.107	50	154316	48.910	ug/l	98
4) Vinyl Chloride	2.247	62	177828	50.431	ug/l	100
5) Bromomethane	2.637	94	115412	49.527	ug/l	99
6) Chloroethane	2.784	64	112079	50.885	ug/l	99
7) Trichlorofluoromethane	3.113	101	302192	51.027	ug/l	100
8) Diethyl Ether	3.521	74	111629	50.661	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.887	101	186776	51.455	ug/l	94
10) Methyl Iodide	4.082	142	186725	48.595	ug/l	95
11) Tert butyl alcohol	4.948	59	191375	234.316	ug/l #	88
12) 1,1-Dichloroethene	3.863	96	174018	51.294	ug/l	93
13) Acrolein	3.723	56	93848	228.714	ug/l	99
14) Allyl chloride	4.466	41	305409	50.701	ug/l	95
15) Acrylonitrile	5.155	53	308409	253.819	ug/l	98
16) Acetone	3.942	43	334202	268.639	ug/l	92
17) Carbon Disulfide	4.186	76	481310	49.554	ug/l	98
18) Methyl Acetate	4.472	43	242646	50.825	ug/l	95
19) Methyl tert-butyl Ether	5.216	73	563237	51.109	ug/l	99
20) Methylene Chloride	4.704	84	208012	51.606	ug/l	93
21) trans-1,2-Dichloroethene	5.210	96	195129	50.682	ug/l	98
22) Diisopropyl ether	6.112	45	630123	51.452	ug/l	92
23) Vinyl Acetate	6.051	43	1888187	257.639	ug/l	96
24) 1,1-Dichloroethane	6.009	63	359763	51.340	ug/l	98
25) 2-Butanone	6.978	43	464972	255.473	ug/l	97
26) 2,2-Dichloropropane	6.978	77	339531	50.840	ug/l	100
27) cis-1,2-Dichloroethene	6.978	96	229969	51.316	ug/l	98
28) Bromochloromethane	7.326	49	144198	47.780	ug/l	97
29) Tetrahydrofuran	7.344	42	279056	249.001	ug/l	93
30) Chloroform	7.502	83	368215	50.957	ug/l	97
31) Cyclohexane	7.777	56	315325	48.385	ug/l	94
32) 1,1,1-Trichloroethane	7.697	97	330859	50.873	ug/l	99
36) 1,1-Dichloropropene	7.911	75	278296	51.912	ug/l	99
37) Ethyl Acetate	7.070	43	182134	49.346	ug/l #	94
38) Carbon Tetrachloride	7.899	117	295202	52.092	ug/l	99
39) Methylcyclohexane	9.179	83	360399	51.601	ug/l	96
40) Benzene	8.155	78	790695	51.860	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014623.D
Acq On : 13 Jul 2023 10:19
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.307	41	94346m	48.336	ug/l		
42) 1,2-Dichloroethane	8.234	62	251373	52.063	ug/l		94
43) Isopropyl Acetate	8.271	43	360994	51.343	ug/l		96
44) Trichloroethene	8.935	130	220008	51.573	ug/l		98
45) 1,2-Dichloropropane	9.209	63	206916	51.972	ug/l		96
46) Dibromomethane	9.301	93	125052	51.776	ug/l		95
47) Bromodichloromethane	9.496	83	296351	52.060	ug/l		97
48) Methyl methacrylate	9.289	41	162702	51.427	ug/l		93
49) 1,4-Dioxane	9.295	88	41098	1043.552	ug/l	#	55
51) 4-Methyl-2-Pentanone	10.069	43	947514	256.668	ug/l		94
52) Toluene	10.240	92	505838	51.847	ug/l		94
53) t-1,3-Dichloropropene	10.459	75	323258	51.915	ug/l		99
54) cis-1,3-Dichloropropene	9.923	75	352370	52.039	ug/l		96
55) 1,1,2-Trichloroethane	10.642	97	174718	51.932	ug/l		96
56) Ethyl methacrylate	10.508	69	269667	52.497	ug/l		92
57) 1,3-Dichloropropane	10.788	76	302822	52.185	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.782	63	604885	252.723	ug/l		96
59) 2-Hexanone	10.831	43	698367	259.412	ug/l		92
60) Dibromochloromethane	10.983	129	215448	52.231	ug/l		99
61) 1,2-Dibromoethane	11.087	107	174730	52.061	ug/l		99
64) Tetrachloroethene	10.715	164	205186	51.179	ug/l		97
65) Chlorobenzene	11.514	112	546928	51.487	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	209033	52.190	ug/l		99
67) Ethyl Benzene	11.593	91	995879	51.924	ug/l		98
68) m/p-Xylenes	11.697	106	755304	103.166	ug/l		98
69) o-Xylene	12.026	106	369011	51.748	ug/l		98
70) Styrene	12.038	104	629233	52.355	ug/l		98
71) Bromoform	12.203	173	142545	52.506	ug/l	#	98
73) Isopropylbenzene	12.325	105	972512	51.154	ug/l		99
74) N-amyl acetate	12.142	43	330344	51.882	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.581	83	219751	50.688	ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	155630m	50.087	ug/l		
77) Bromobenzene	12.605	156	225703	52.010	ug/l		93
78) n-propylbenzene	12.666	91	1189972	51.944	ug/l		99
79) 2-Chlorotoluene	12.751	91	683547	51.803	ug/l		99
80) 1,3,5-Trimethylbenzene	12.812	105	825197	51.974	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.373	75	82533	52.111	ug/l		94
82) 4-Chlorotoluene	12.849	91	703520	51.769	ug/l		97
83) tert-Butylbenzene	13.075	119	732076	51.979	ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	808749	51.904	ug/l		100
85) sec-Butylbenzene	13.251	105	1072955	51.933	ug/l		100
86) p-Isopropyltoluene	13.367	119	882628	52.324	ug/l		100
87) 1,3-Dichlorobenzene	13.361	146	439556	52.043	ug/l		99
88) 1,4-Dichlorobenzene	13.440	146	439836	51.968	ug/l		98
89) n-Butylbenzene	13.696	91	862412	52.549	ug/l		96
90) Hexachloroethane	13.959	117	180452	52.081	ug/l		89
91) 1,2-Dichlorobenzene	13.733	146	404319	52.250	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	42011	50.671	ug/l		93
93) 1,2,4-Trichlorobenzene	15.007	180	263079	53.557	ug/l		98
94) Hexachlorobutadiene	15.111	225	144204	53.421	ug/l		97
95) Naphthalene	15.233	128	608049	53.132	ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	232131	53.172	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014623.D
Acq On : 13 Jul 2023 10:19
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

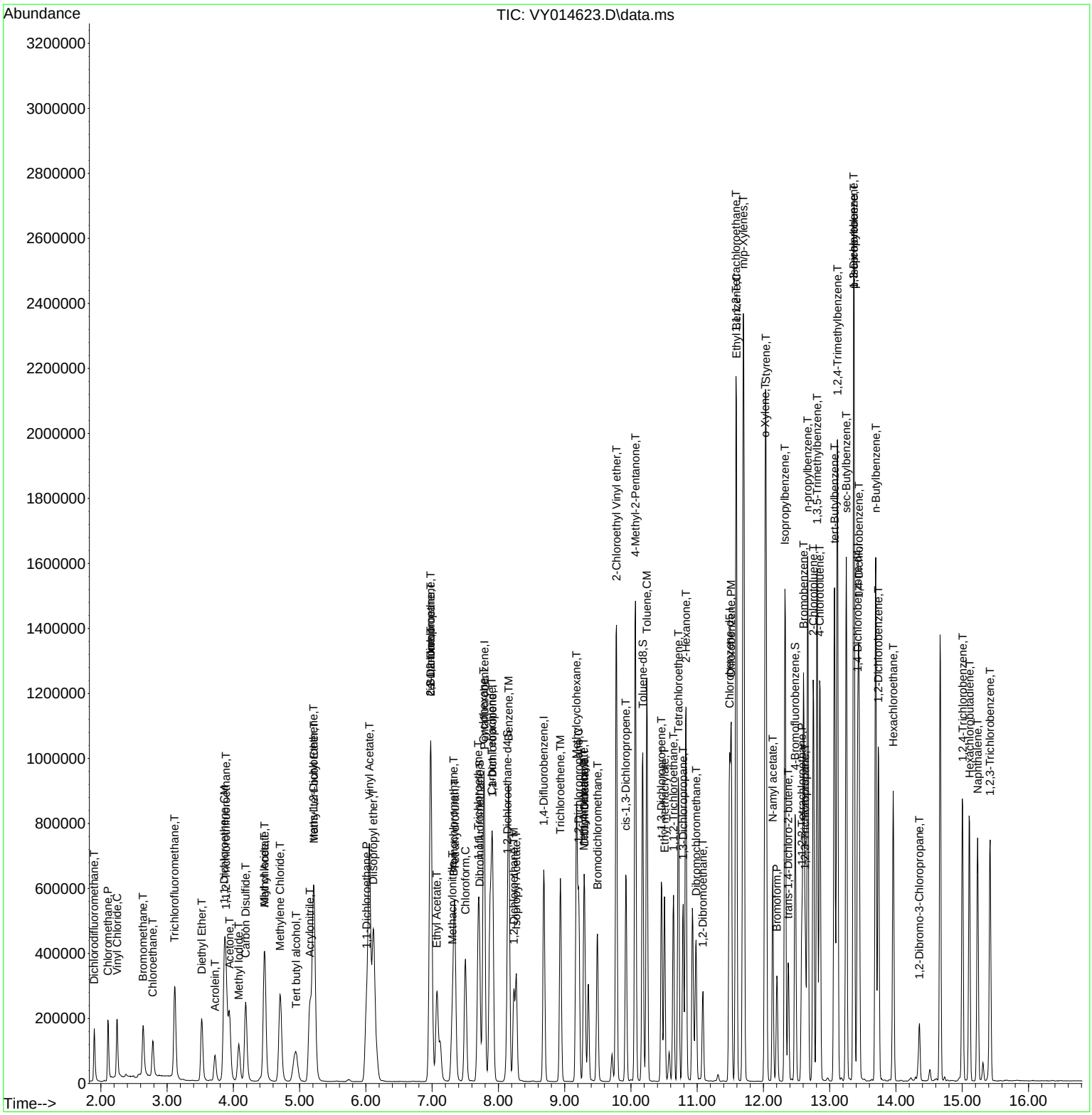
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014623.D
Acq On : 13 Jul 2023 10:19
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

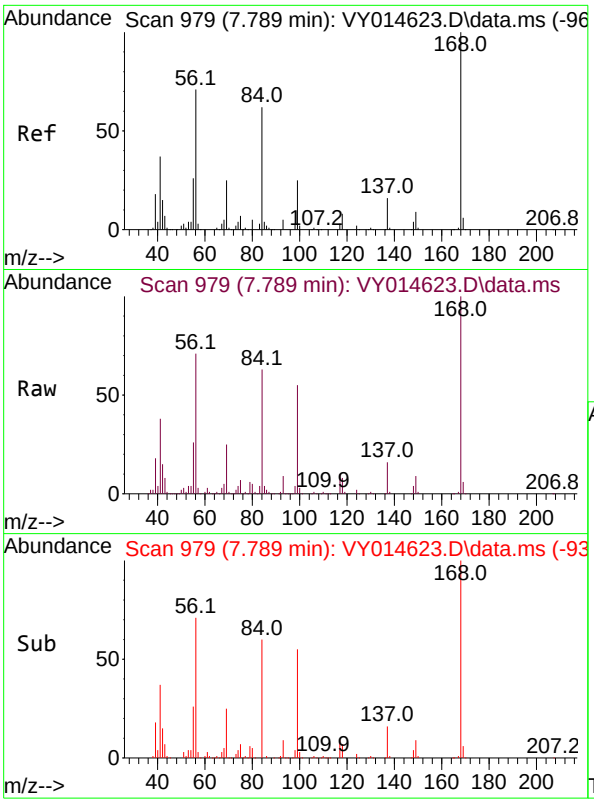
Quant Time: Jul 14 02:00:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

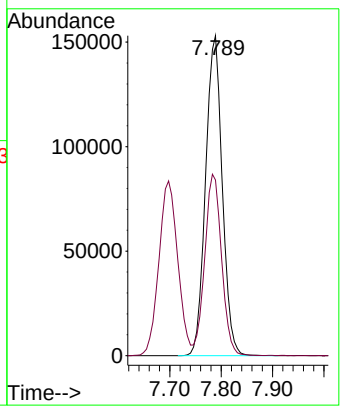




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:168 Resp: 34451

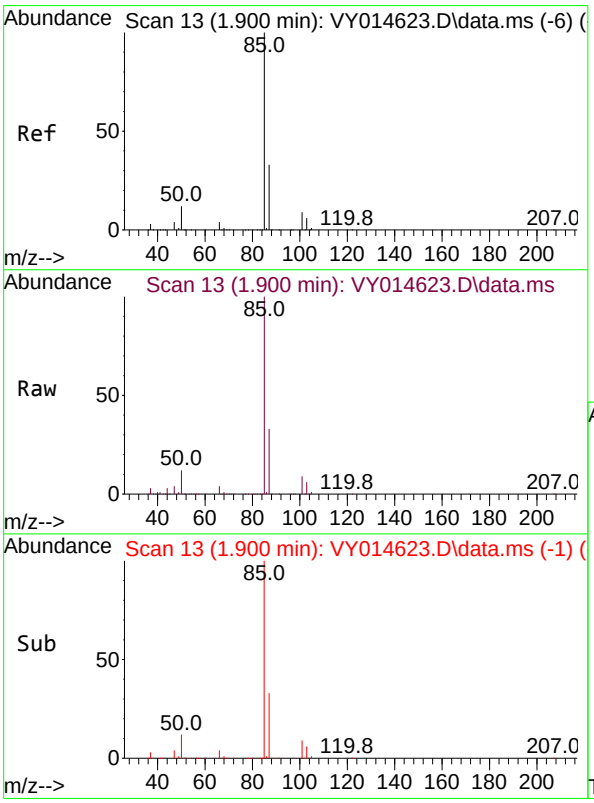
Ion	Ratio	Lower	Upper
168	100		
99	54.8	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

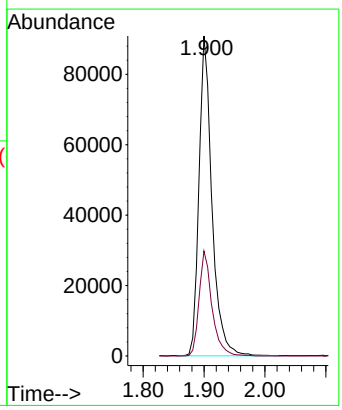
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

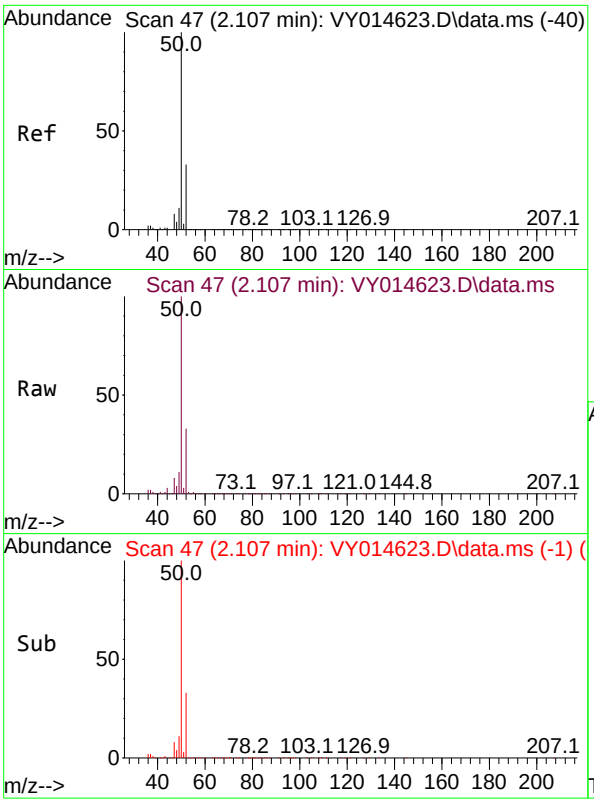


#2
Dichlorodifluoromethane
Concen: 47.690 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 85 Resp: 133857

Ion	Ratio	Lower	Upper
85	100		
87	32.9	15.6	46.8

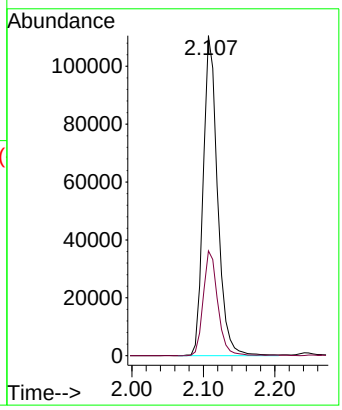




#3
Chloromethane
Concen: 48.910 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 50 Resp: 15431

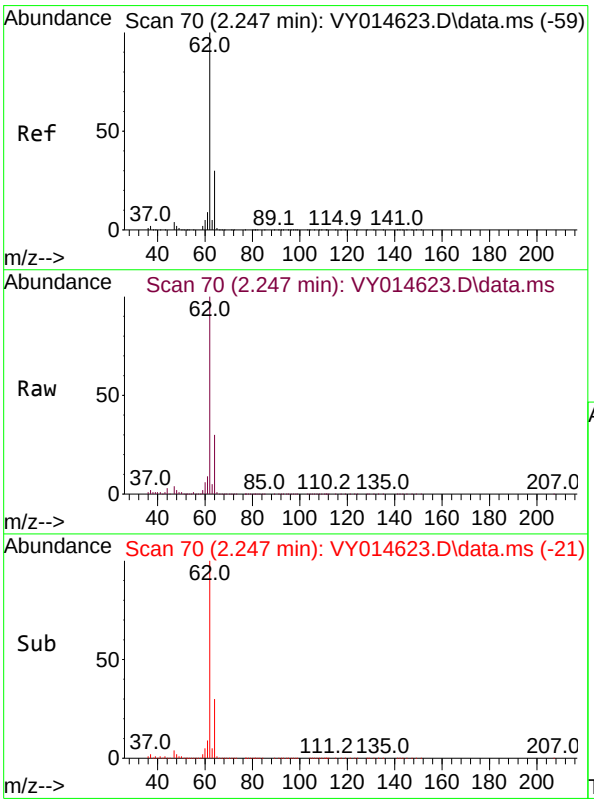
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

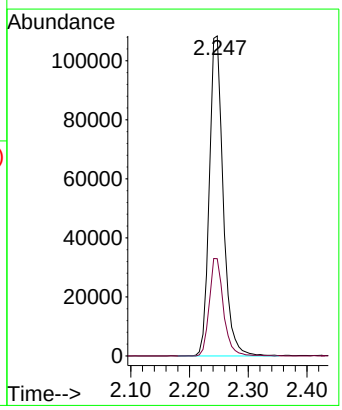
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

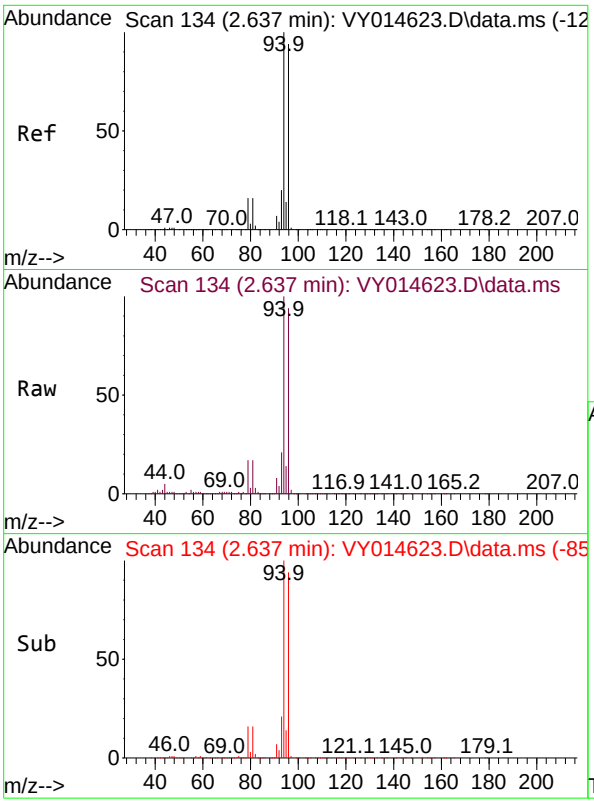


#4
Vinyl Chloride
Concen: 50.431 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 62 Resp: 177828

Ion	Ratio	Lower	Upper
62	100		
64	30.4	24.3	36.5

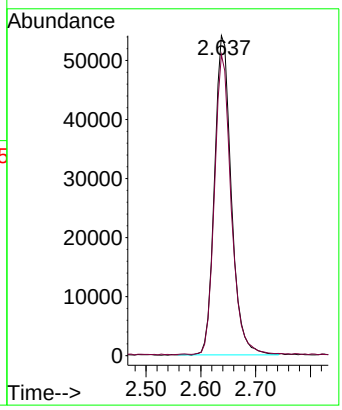




#5
Bromomethane
Concen: 49.527 ug/l
RT: 2.637 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 94 Resp: 11541

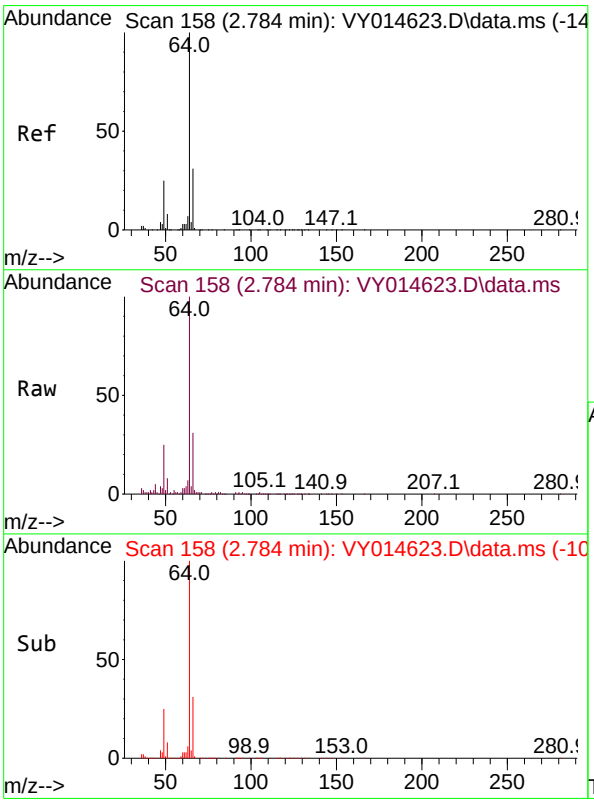
Ion	Ratio	Lower	Upper
94	100		
96	93.9	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

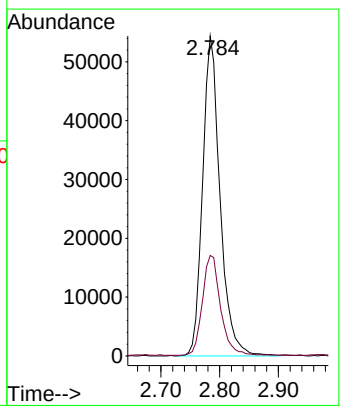
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

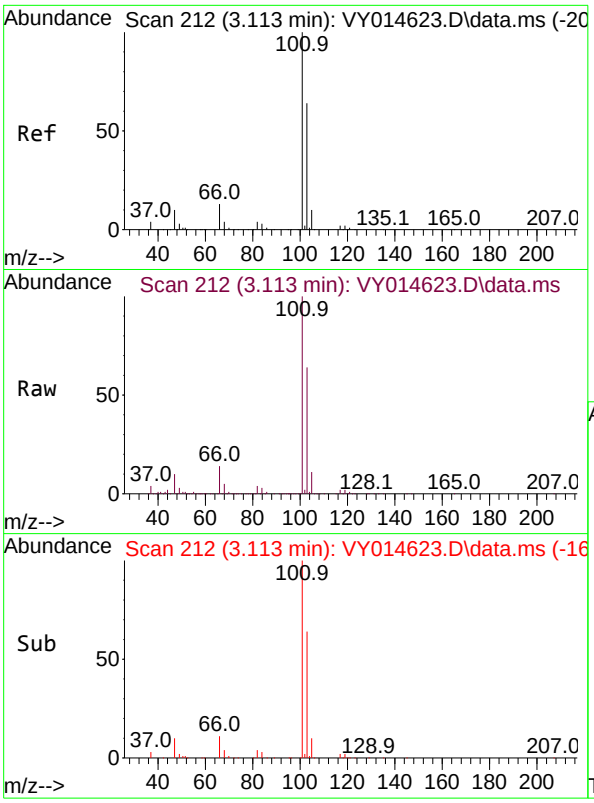


#6
Chloroethane
Concen: 50.885 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 64 Resp: 112079

Ion	Ratio	Lower	Upper
64	100		
66	31.2	24.4	36.6

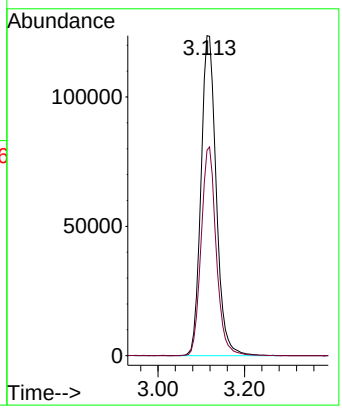




#7
Trichlorofluoromethane
Concen: 51.027 ug/l
RT: 3.113 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:101 Resp: 30219

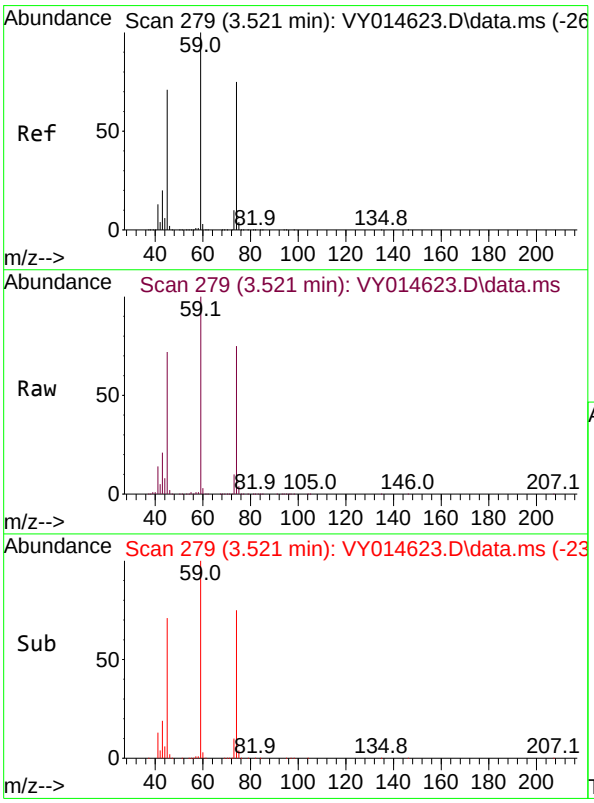
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

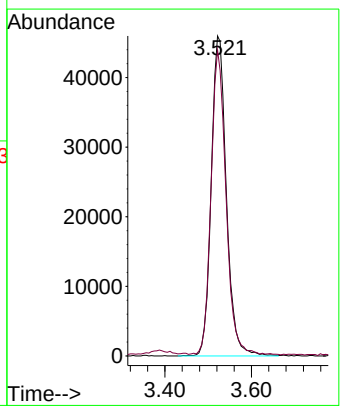
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

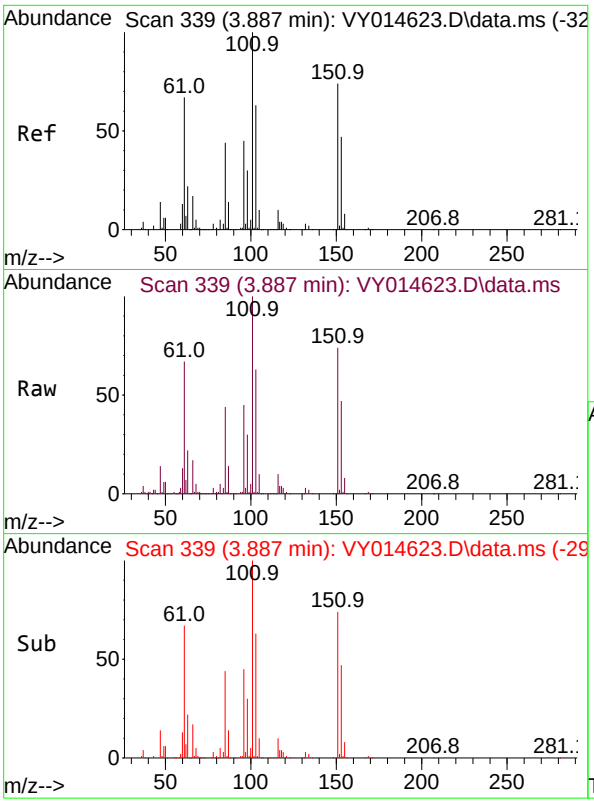


#8
Diethyl Ether
Concen: 50.661 ug/l
RT: 3.521 min Scan# 279
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 74 Resp: 111629

Ion	Ratio	Lower	Upper
74	100		
45	94.1	51.5	154.5

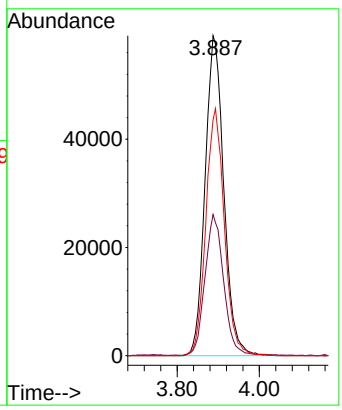




#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.455 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:101 Resp: 18677

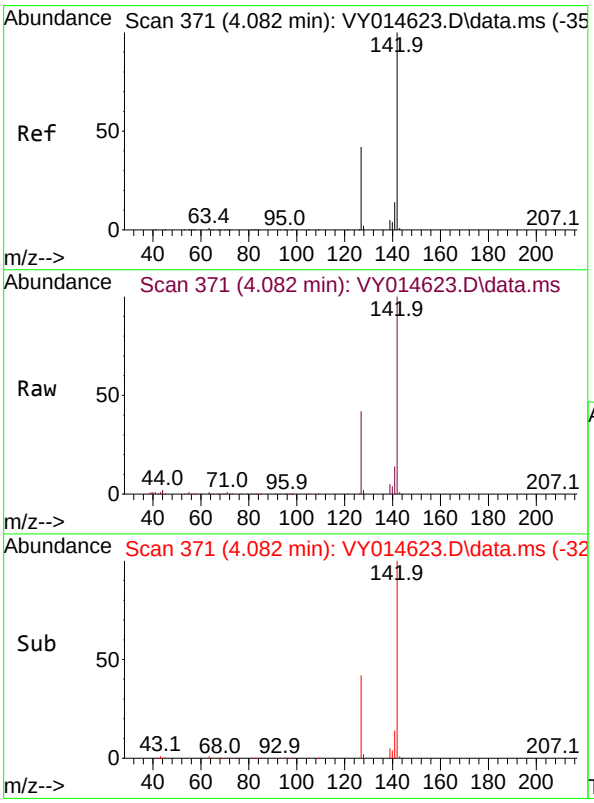
Ion	Ratio	Lower	Upper
101	100		
85	44.3	36.6	55.0
151	76.6	67.0	100.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

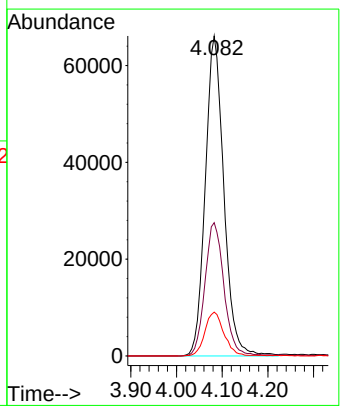
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

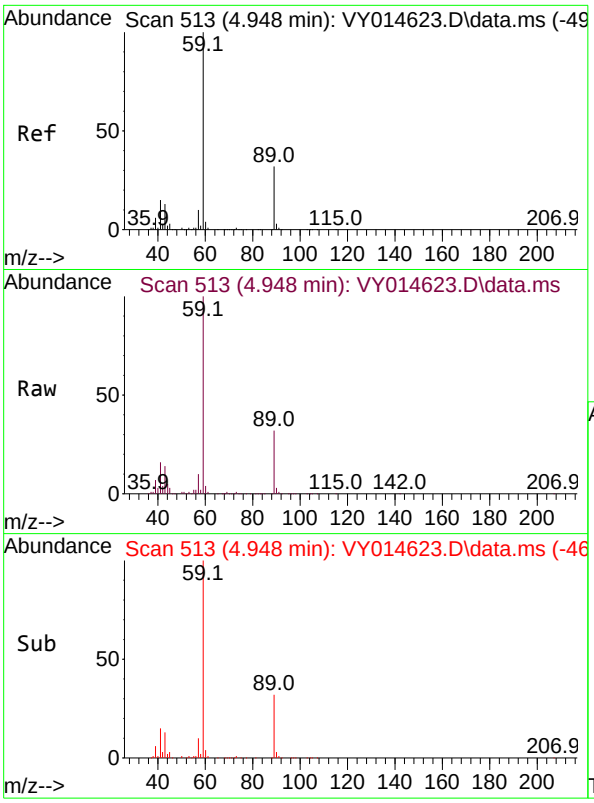


#10
Methyl Iodide
Concen: 48.595 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:142 Resp: 186725

Ion	Ratio	Lower	Upper
142	100		
127	42.8	37.6	56.4
141	14.3	11.8	17.8

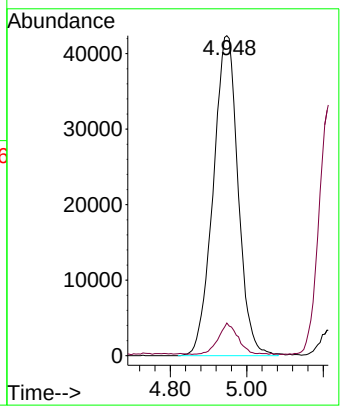




#11
Tert butyl alcohol
Concen: 234.316 ug/l
RT: 4.948 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 59 Resp: 19137

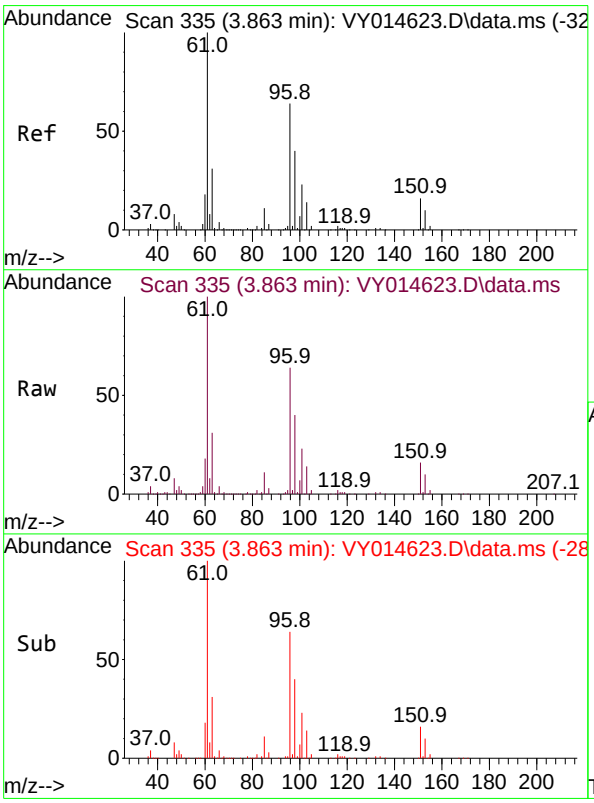
Ion	Ratio	Lower	Upper
59	100		
57	7.7	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

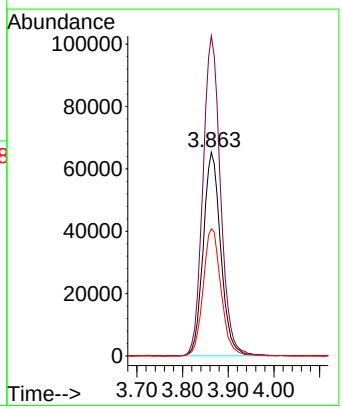
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

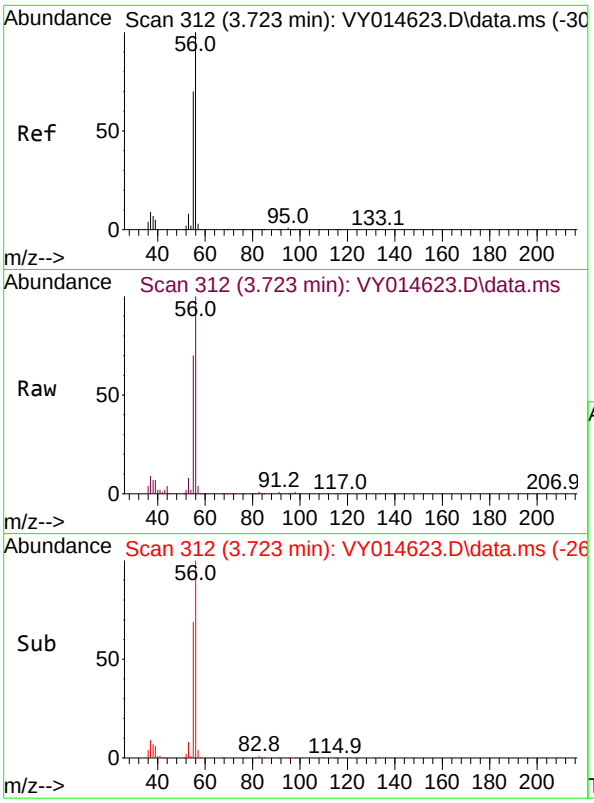


#12
1,1-Dichloroethene
Concen: 51.294 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 96 Resp: 174018

Ion	Ratio	Lower	Upper
96	100		
61	157.2	136.4	204.6
98	62.3	49.4	74.2

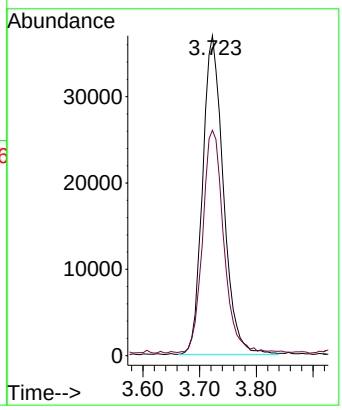




#13
Acrolein
Concen: 228.714 ug/l
RT: 3.723 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 56 Resp: 9384

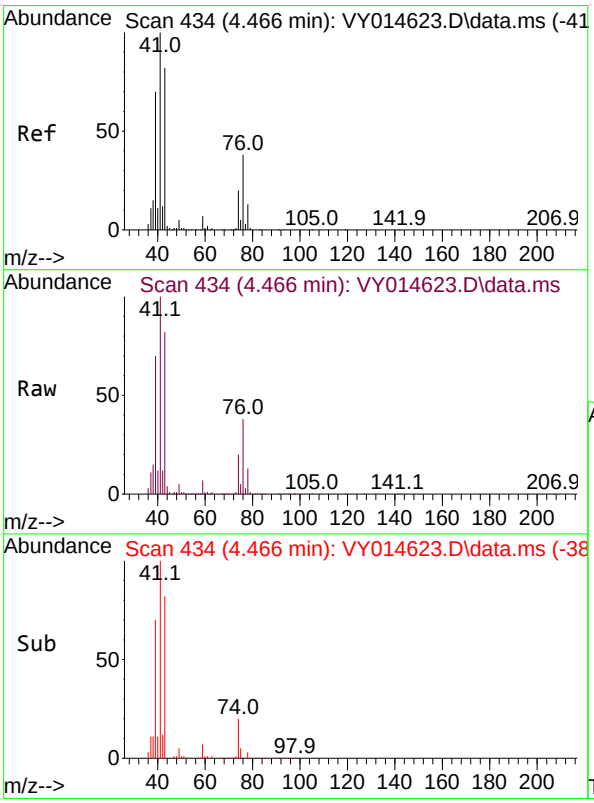
Ion	Ratio	Lower	Upper
56	100		
55	70.4	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

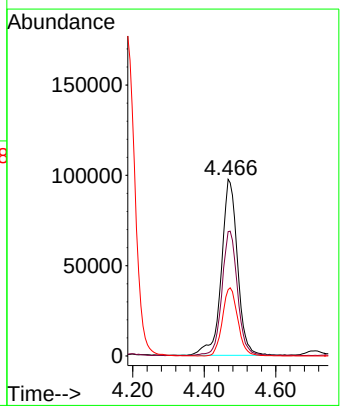
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

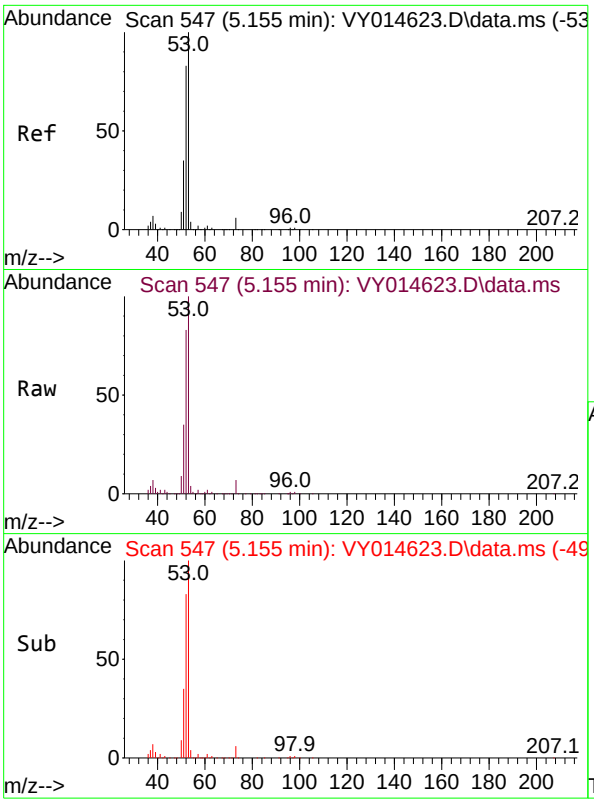


#14
Allyl chloride
Concen: 50.701 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 41 Resp: 305409

Ion	Ratio	Lower	Upper
41	100		
39	68.2	58.0	87.0
76	37.1	27.4	41.2





#15
Acrylonitrile
Concen: 253.819 ug/l
RT: 5.155 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

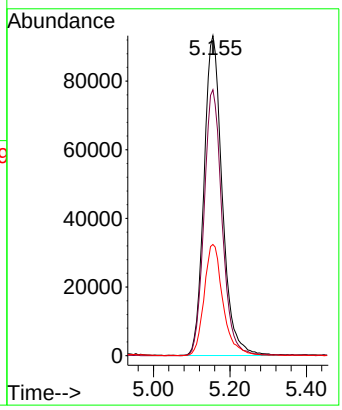
Tgt Ion: 53 Resp: 308409

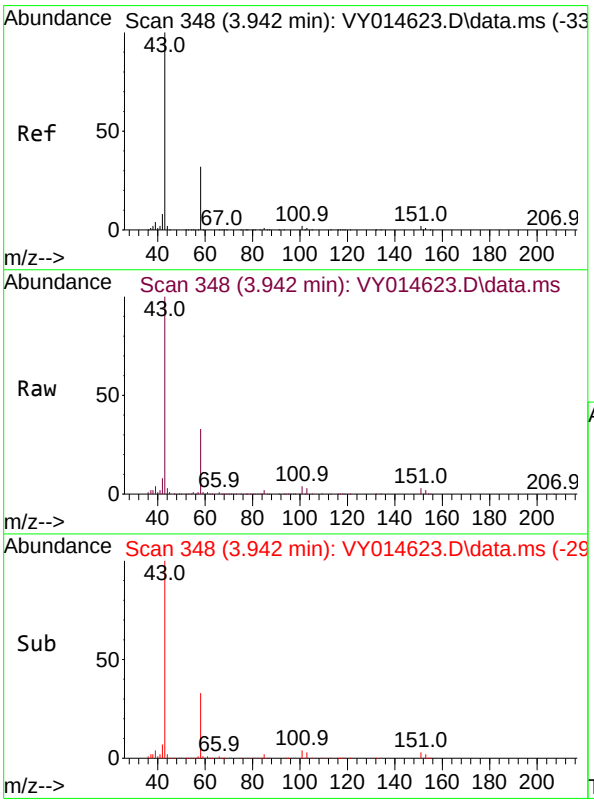
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.9	100.3
51	36.2	29.8	44.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

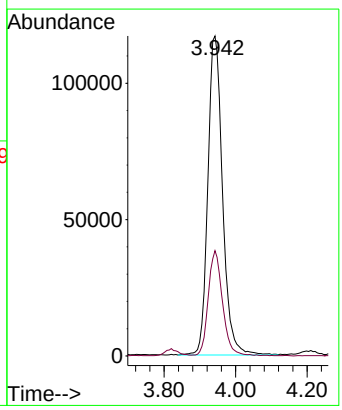


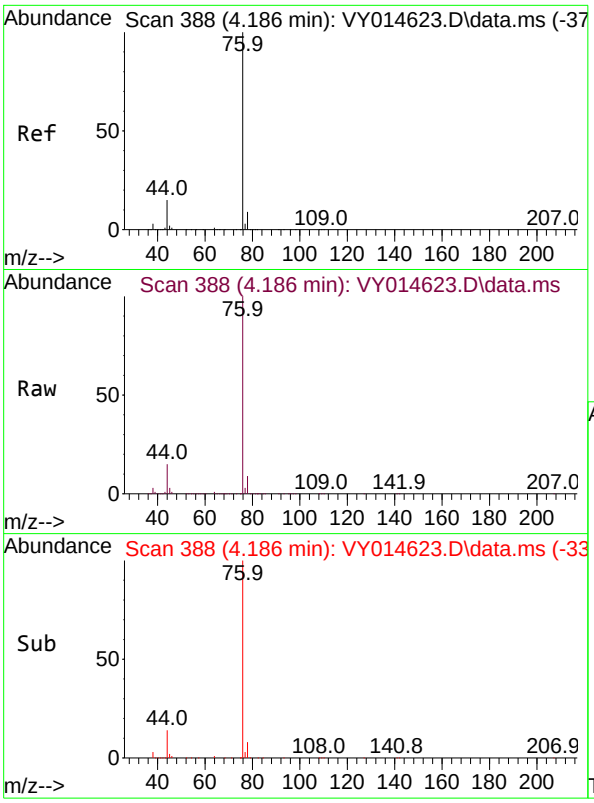


#16
Acetone
Concen: 268.639 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 334202

Ion	Ratio	Lower	Upper
43	100		
58	32.9	22.7	34.1

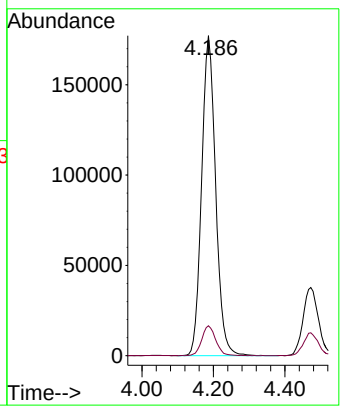




#17
Carbon Disulfide
Concen: 49.554 ug/l
RT: 4.186 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 76 Resp: 48131

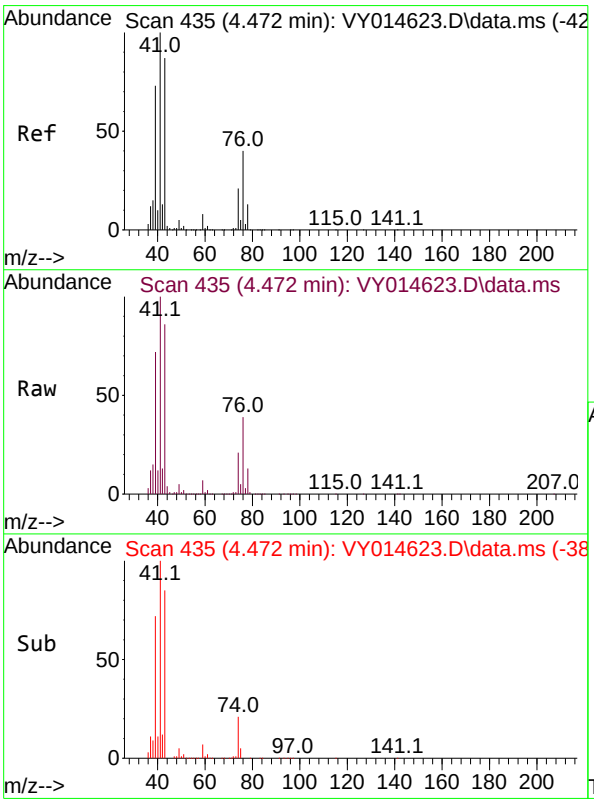
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

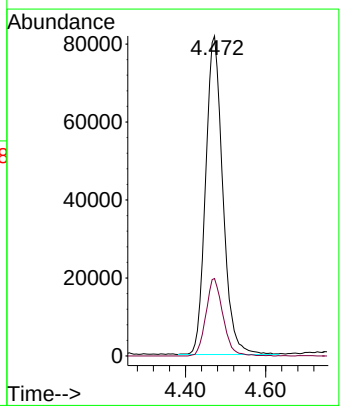
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

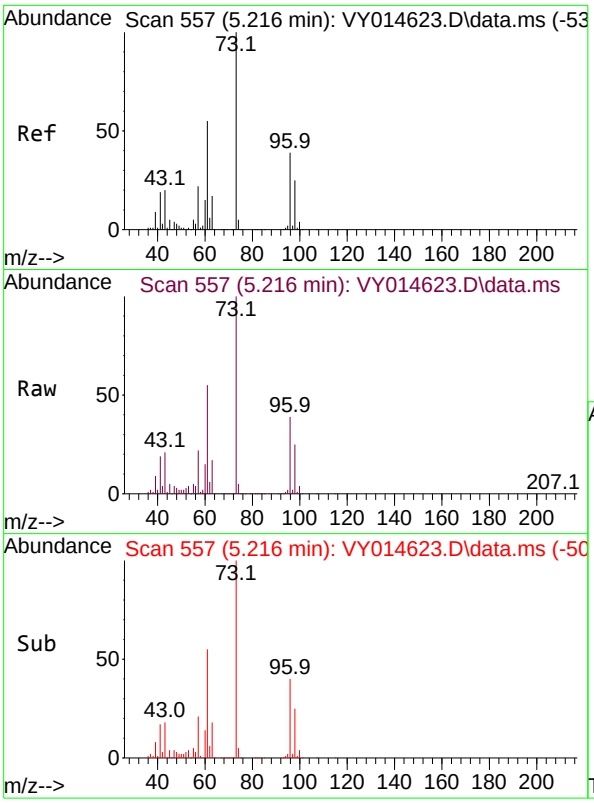


#18
Methyl Acetate
Concen: 50.825 ug/l
RT: 4.472 min Scan# 435
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 242646

Ion	Ratio	Lower	Upper
43	100		
74	24.2	17.4	26.0

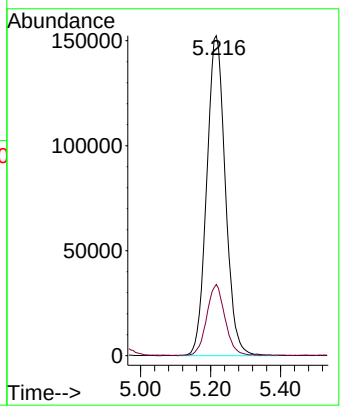




#19
Methyl tert-butyl Ether
Concen: 51.109 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 73 Resp: 56323

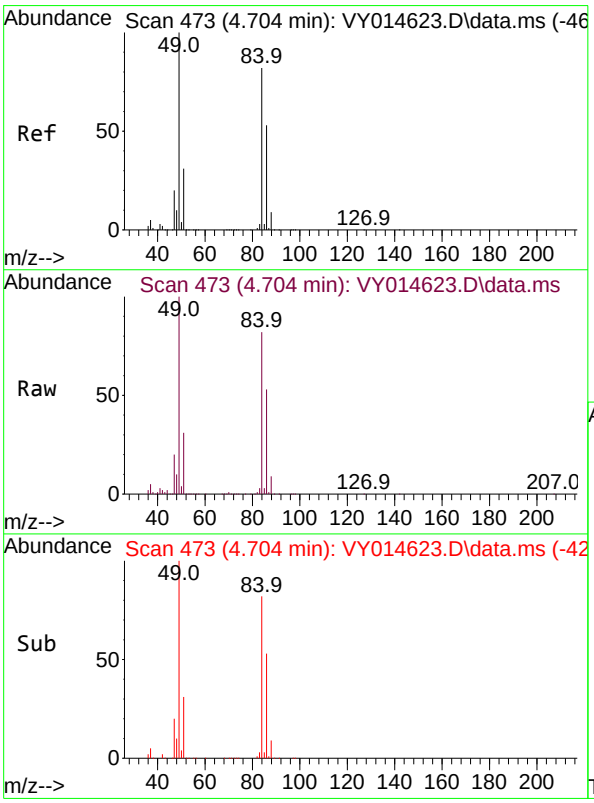
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

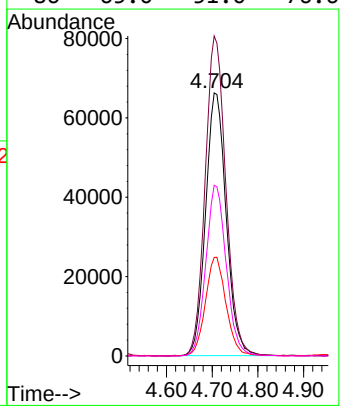
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

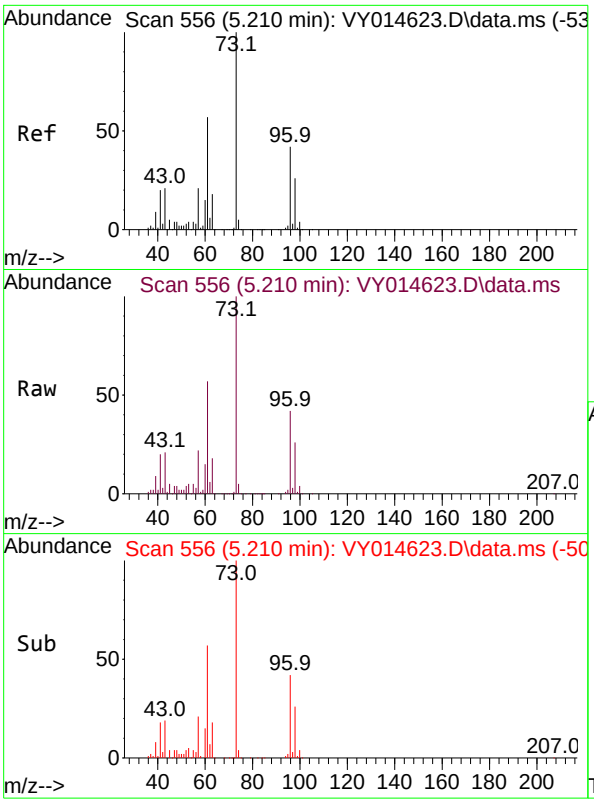


#20
Methylene Chloride
Concen: 51.606 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 84 Resp: 208012

Ion	Ratio	Lower	Upper
84	100		
49	121.8	106.9	160.3
51	37.4	33.2	49.8
86	65.0	51.0	76.6

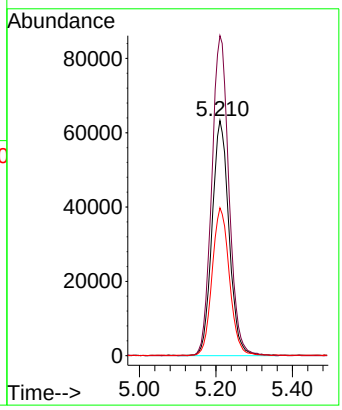




#21
trans-1,2-Dichloroethene
Concen: 50.682 ug/l
RT: 5.210 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 96 Resp: 19512

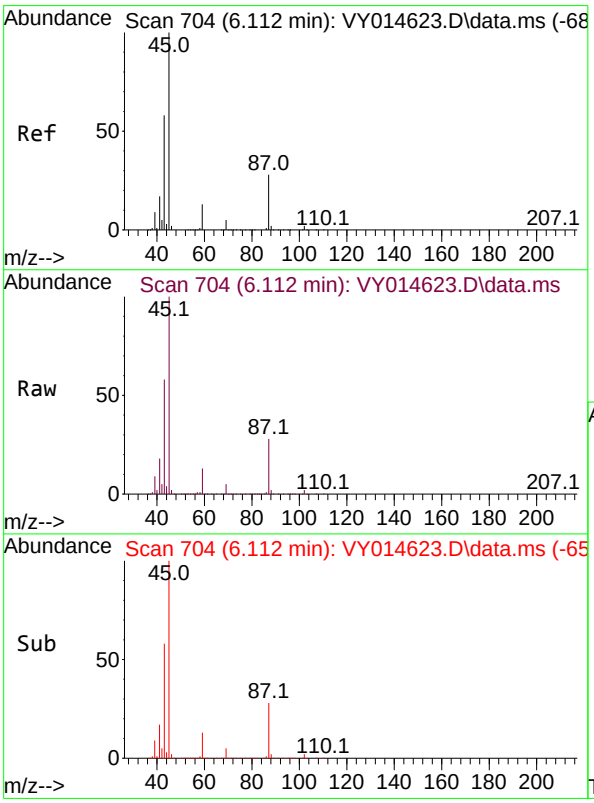
Ion	Ratio	Lower	Upper
96	100		
61	136.2	110.2	165.4
98	62.7	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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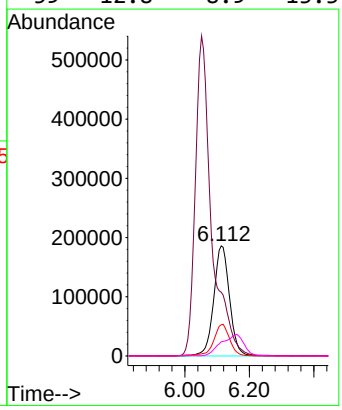
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

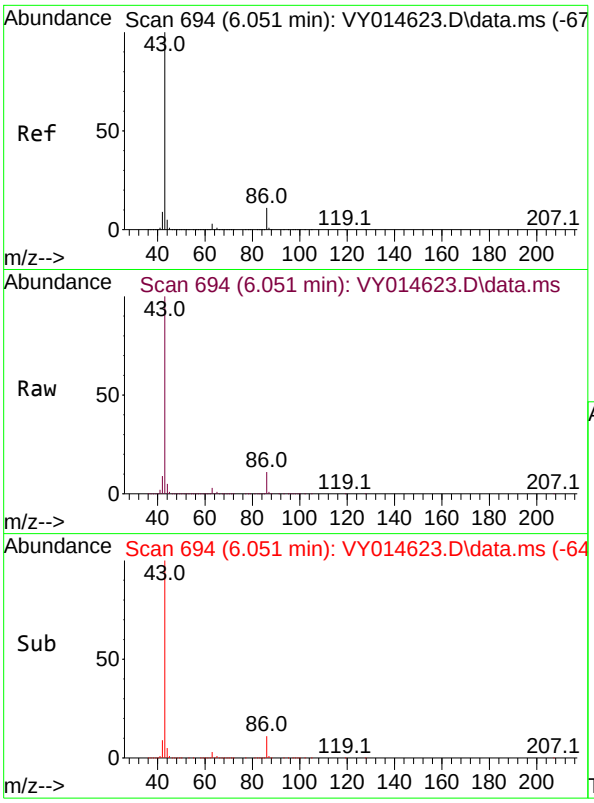


#22
Diisopropyl ether
Concen: 51.452 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 45 Resp: 630123

Ion	Ratio	Lower	Upper
45	100		
43	57.6	52.2	78.4
87	28.4	21.0	31.6
59	12.8	8.9	13.3

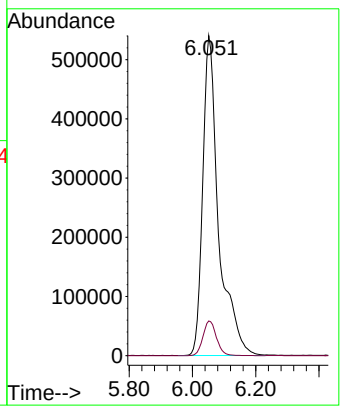




#23
Vinyl Acetate
Concen: 257.639 ug/l
RT: 6.051 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 188818

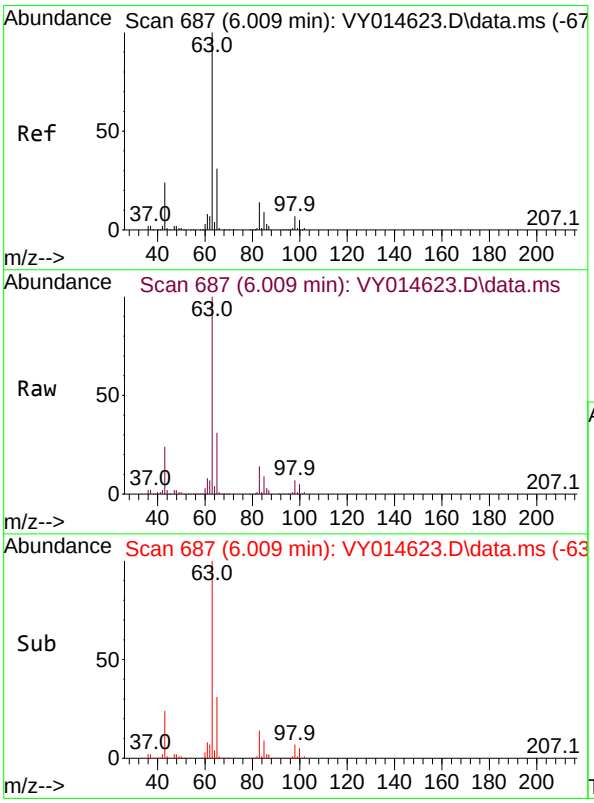
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.5	11.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

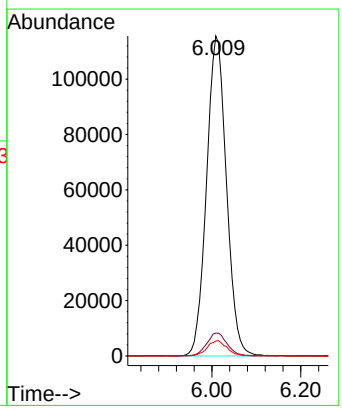
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

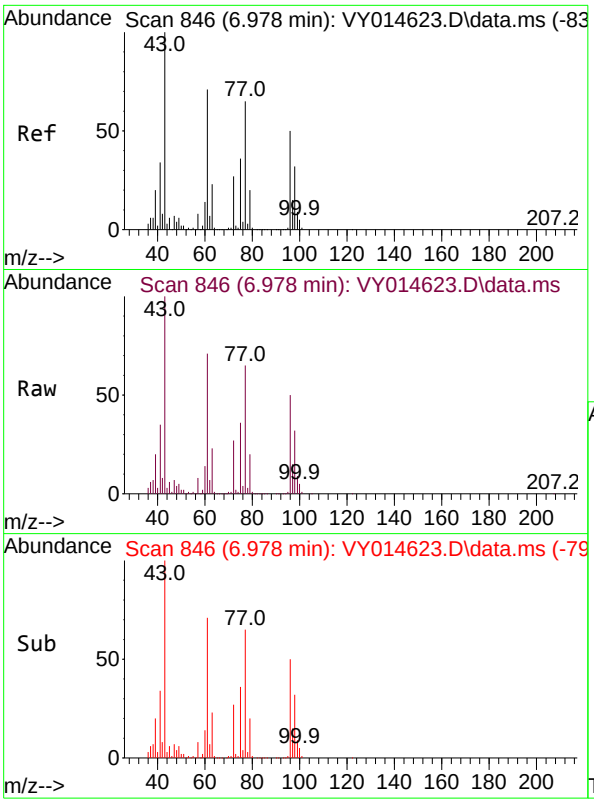


#24
1,1-Dichloroethane
Concen: 51.340 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 63 Resp: 359763

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.1	9.4
100	4.6	1.8	5.5





#25
2-Butanone
Concen: 255.473 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

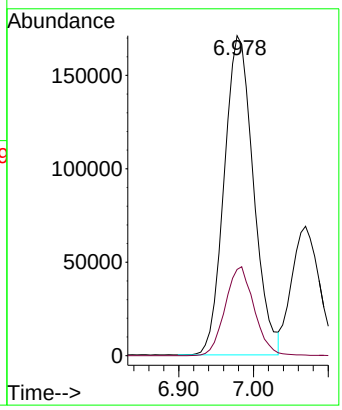
Tgt Ion: 43 Resp: 46497

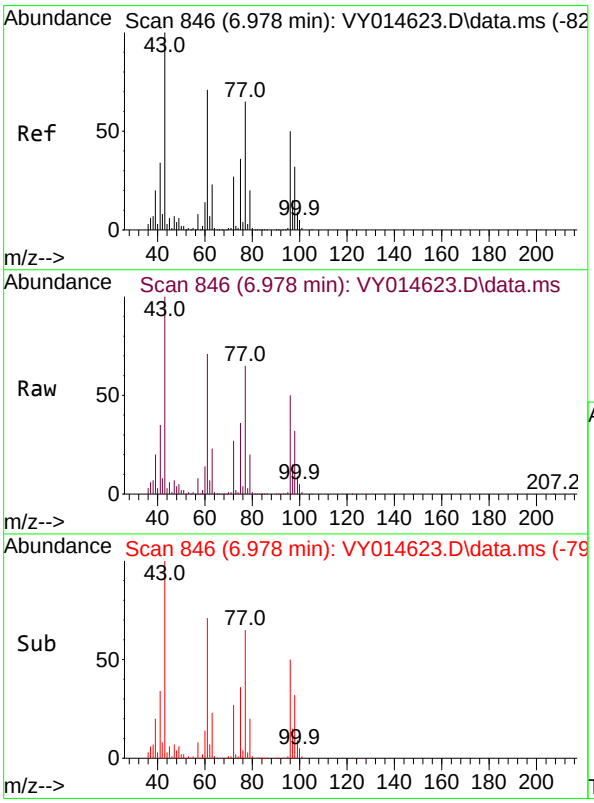
Ion	Ratio	Lower	Upper
43	100		
72	27.0	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

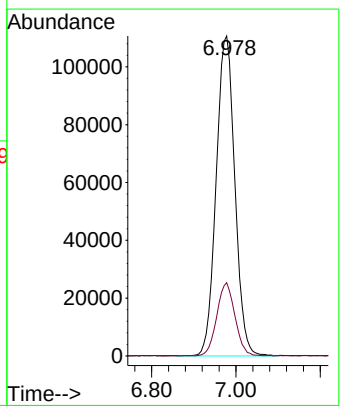


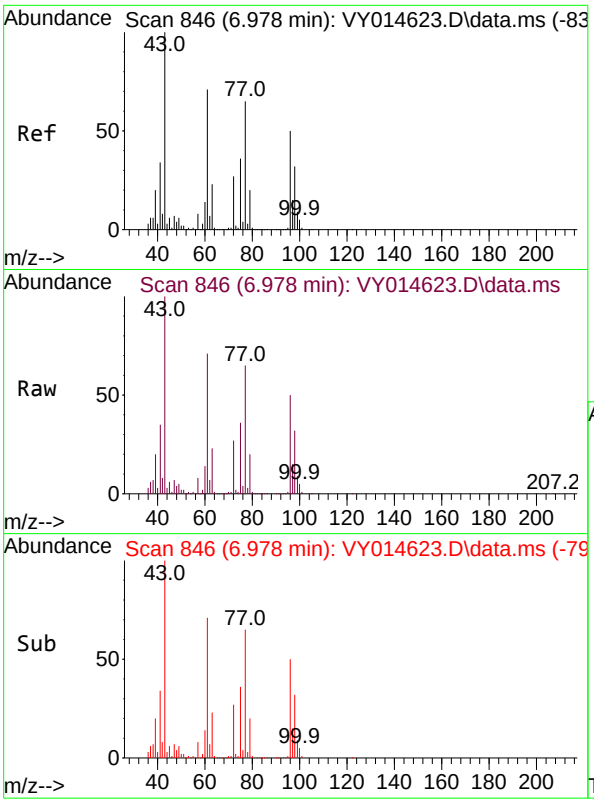


#26
2,2-Dichloropropane
Concen: 50.840 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 77 Resp: 339531

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.9

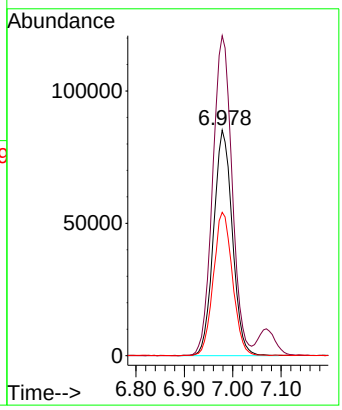




#27
cis-1,2-Dichloroethene
Concen: 51.316 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 96 Resp: 22996

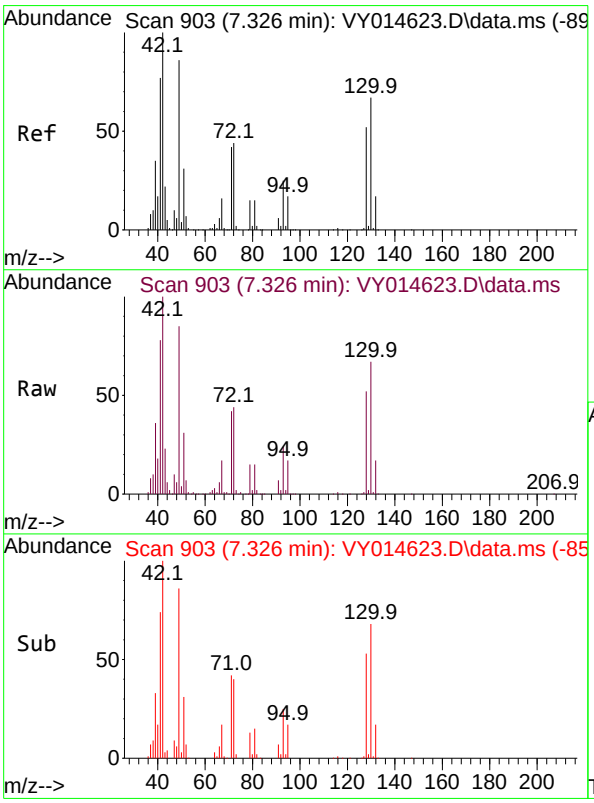
Ion	Ratio	Lower	Upper
96	100		
61	146.6	0.0	301.4
98	64.8	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

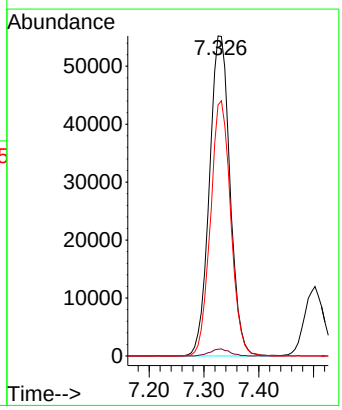
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

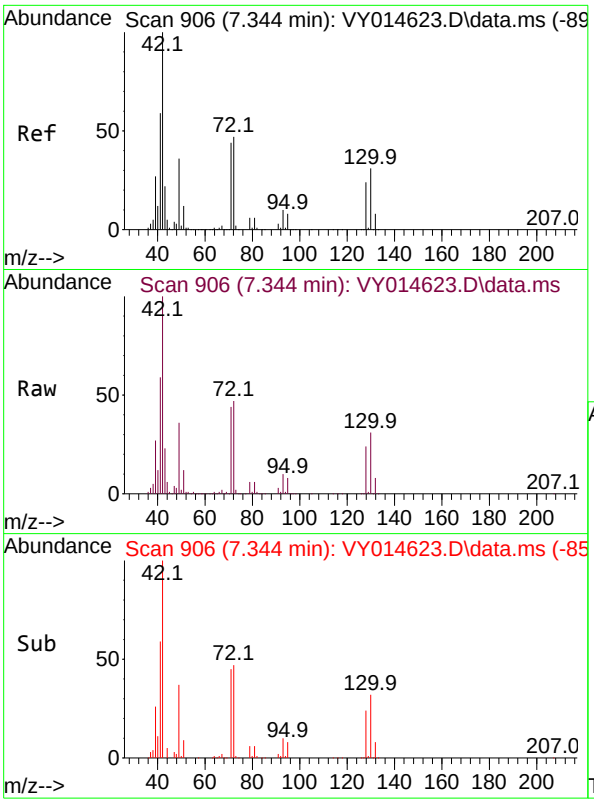


#28
Bromochloromethane
Concen: 47.780 ug/l
RT: 7.326 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 49 Resp: 144198

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	78.2	60.7	91.1

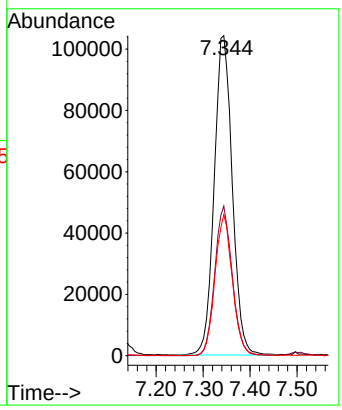




#29
Tetrahydrofuran
Concen: 249.001 ug/l
RT: 7.344 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 42 Resp: 27905(

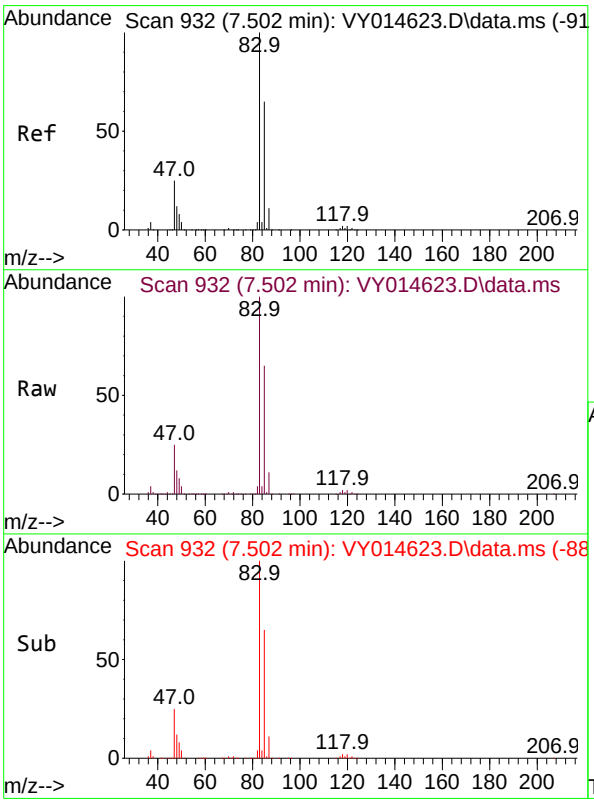
Ion	Ratio	Lower	Upper
42	100		
72	45.3	32.8	49.2
71	42.7	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

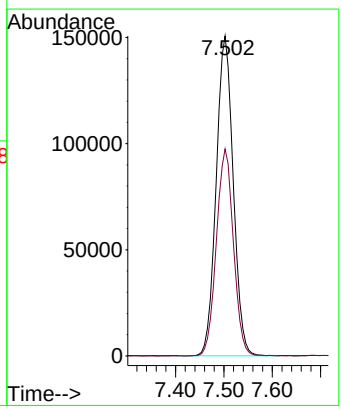
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

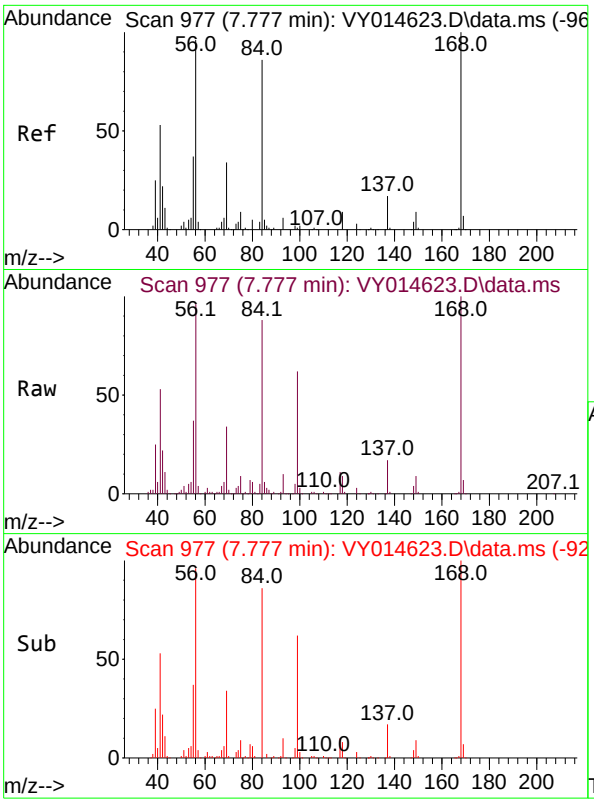


#30
Chloroform
Concen: 50.957 ug/l
RT: 7.502 min Scan# 932
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 83 Resp: 368215

Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.7	74.5

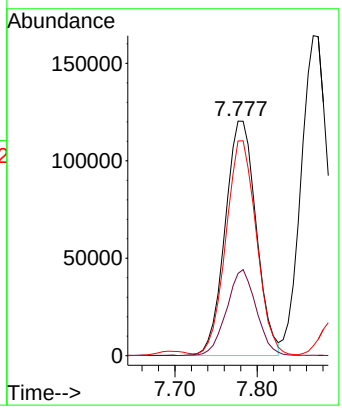




#31
Cyclohexane
Concen: 48.385 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 56 Resp: 31532

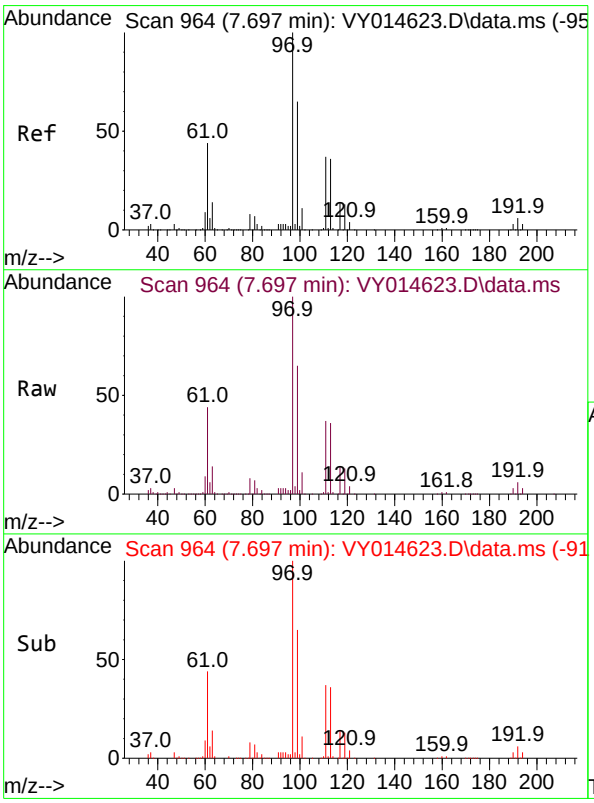
Ion	Ratio	Lower	Upper
56	100		
69	35.0	27.8	41.6
84	89.8	66.4	99.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

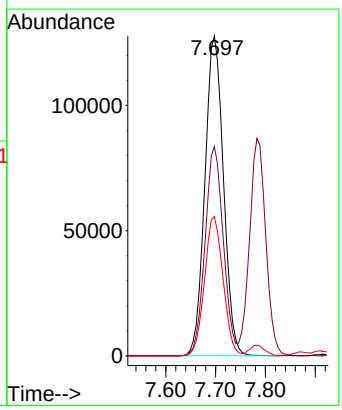
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

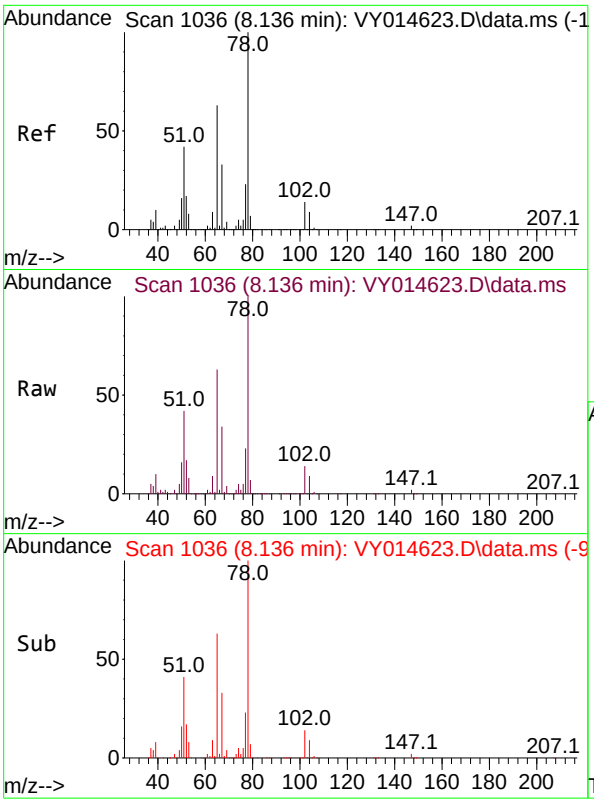


#32
1,1,1-Trichloroethane
Concen: 50.873 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 97 Resp: 330859

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.5	35.1	52.7

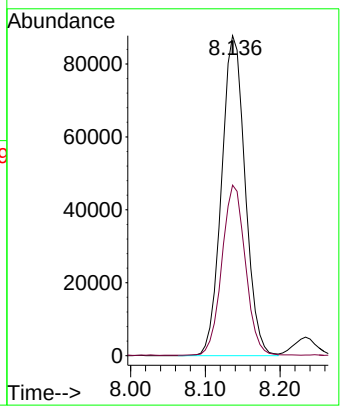




#33
1,2-Dichloroethane-d4
Concen: 49.077 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 65 Resp: 19266

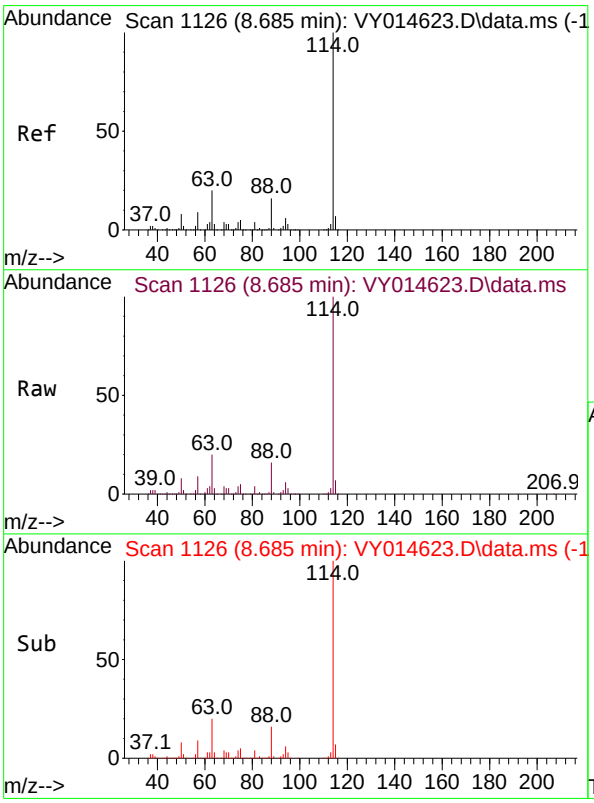
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

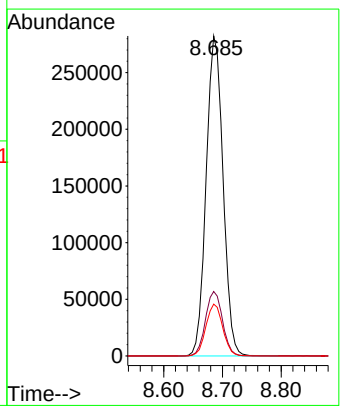
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

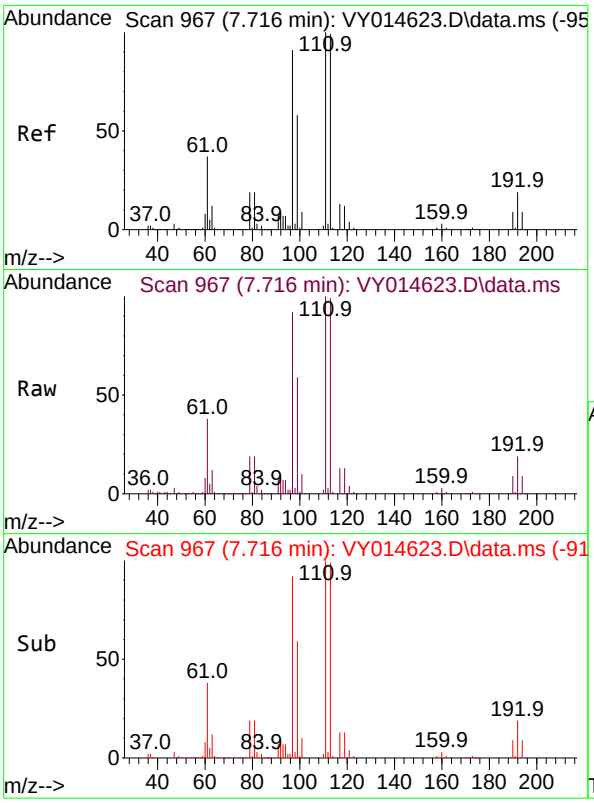


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:114 Resp: 563137

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	16.2	0.0	30.6

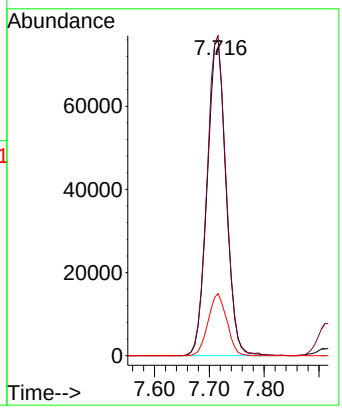




#35
Dibromofluoromethane
Concen: 50.517 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:113 Resp: 18109

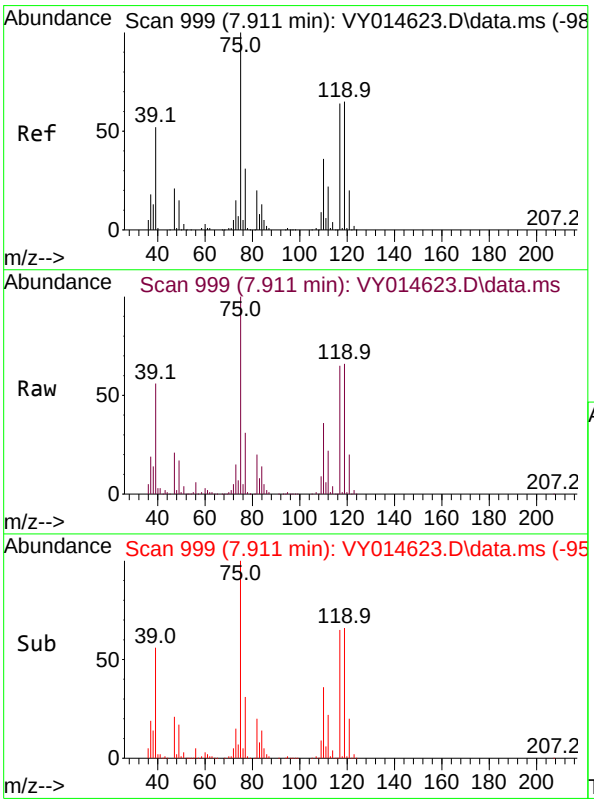
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.3	121.9
192	19.4	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

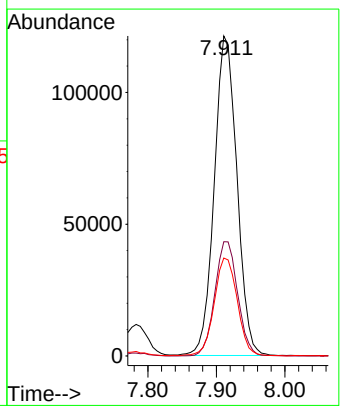
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

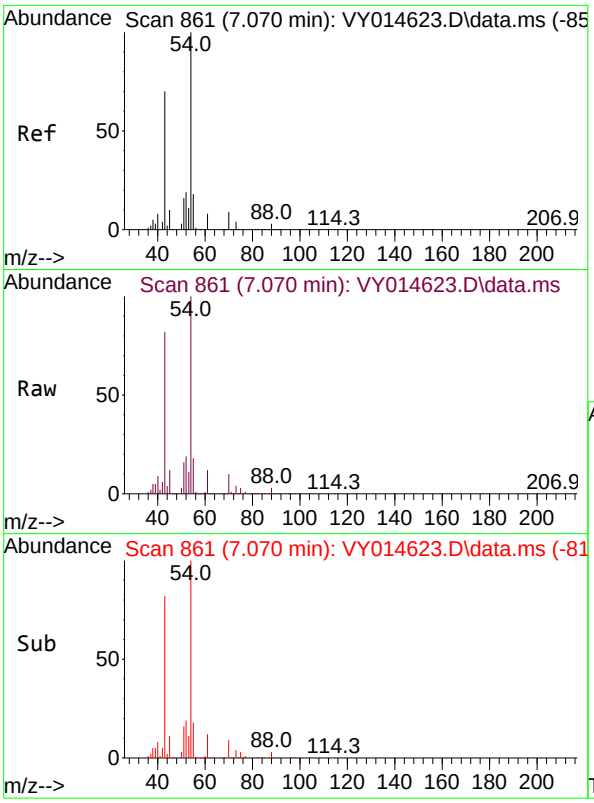


#36
1,1-Dichloropropene
Concen: 51.912 ug/l
RT: 7.911 min Scan# 999
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 75 Resp: 278296

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.8	53.5
77	31.4	24.4	36.6

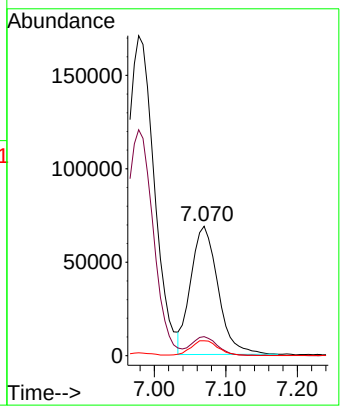




#37
Ethyl Acetate
Concen: 49.346 ug/l
RT: 7.070 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 18213

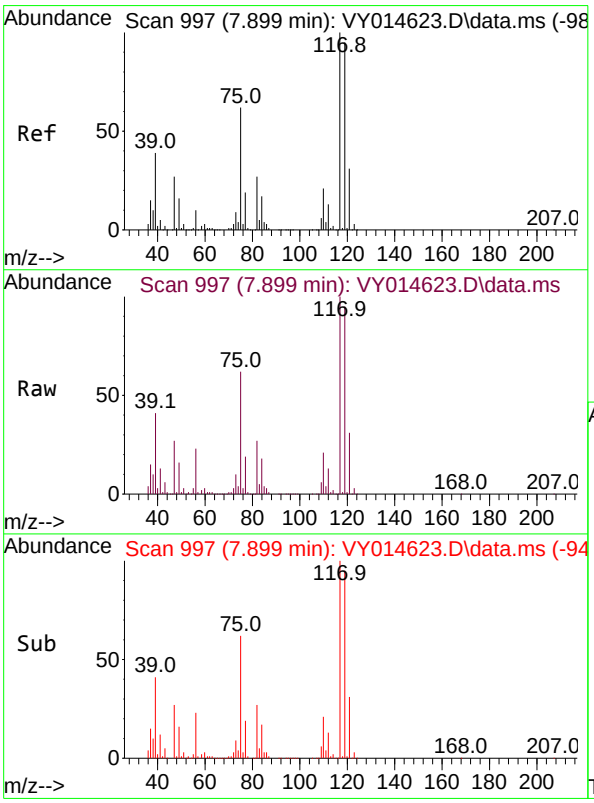
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.1	15.1
70	11.9	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

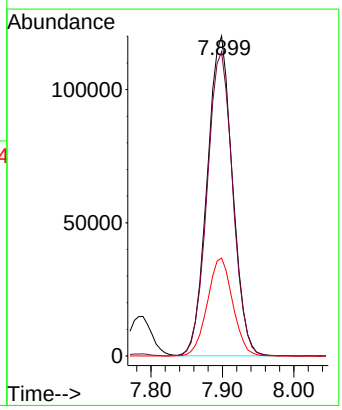
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

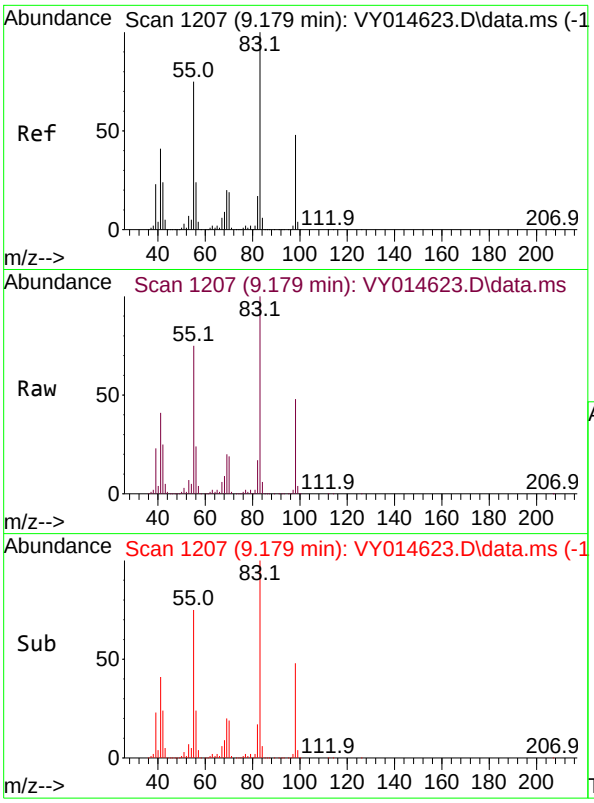


#38
Carbon Tetrachloride
Concen: 52.092 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:117 Resp: 295202

Ion	Ratio	Lower	Upper
117	100		
119	95.1	76.4	114.6
121	30.6	25.8	38.6





#39
Methylcyclohexane
Concen: 51.601 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

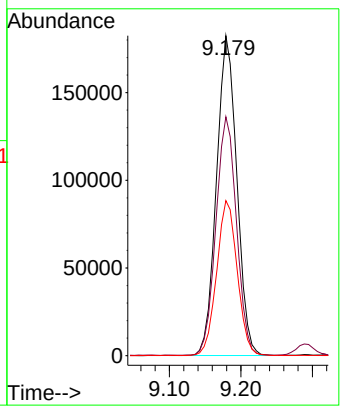
Tgt Ion: 83 Resp: 360399

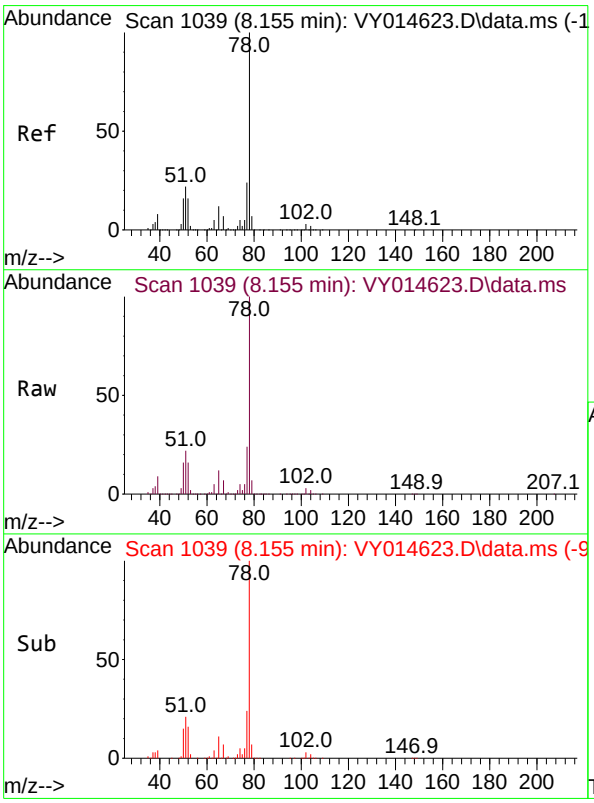
Ion	Ratio	Lower	Upper
83	100		
55	74.5	63.0	94.4
98	48.4	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

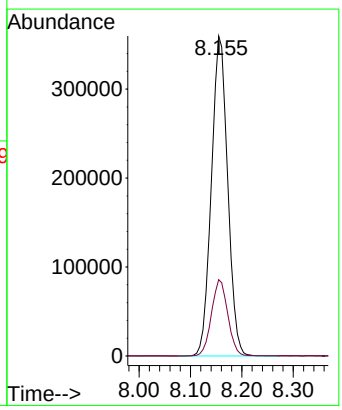


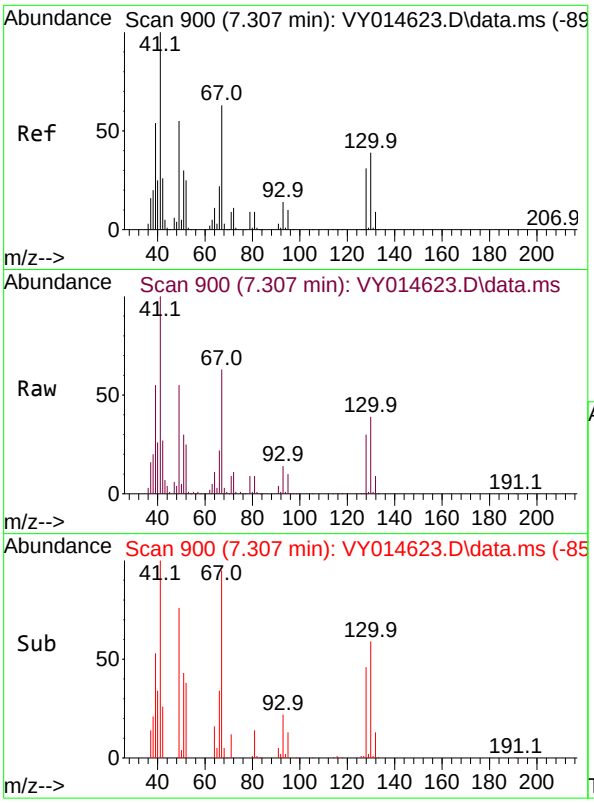


#40
Benzene
Concen: 51.860 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 78 Resp: 790695

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

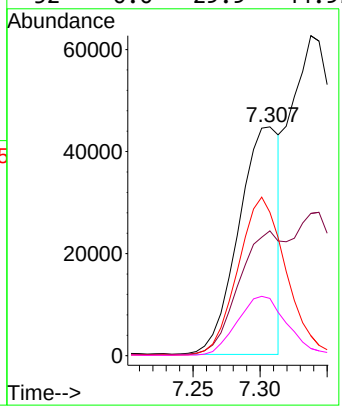




#41
Methacrylonitrile
Concen: 48.336 ug/l m
RT: 7.307 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 41 Resp: 9434

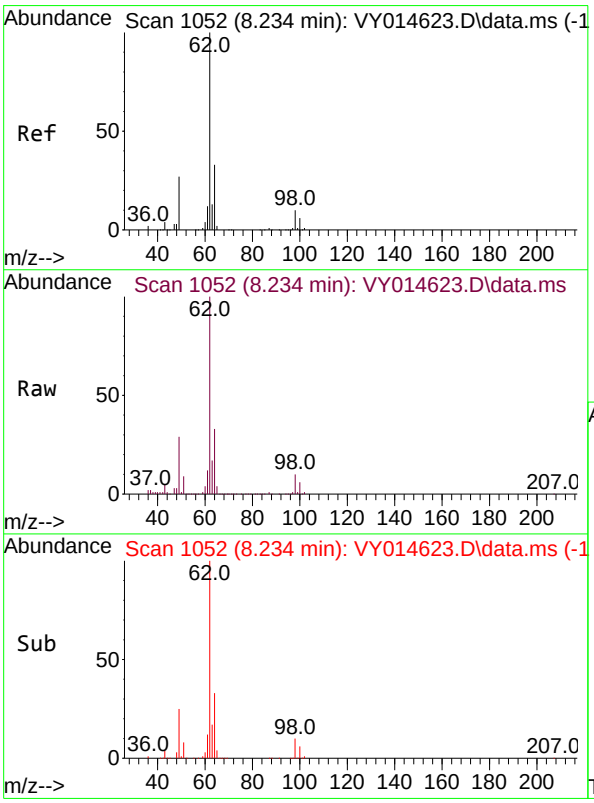
Ion	Ratio	Lower	Upper
41	100		
39	61.1	52.1	78.1
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

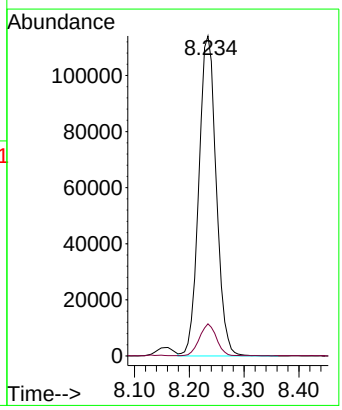
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

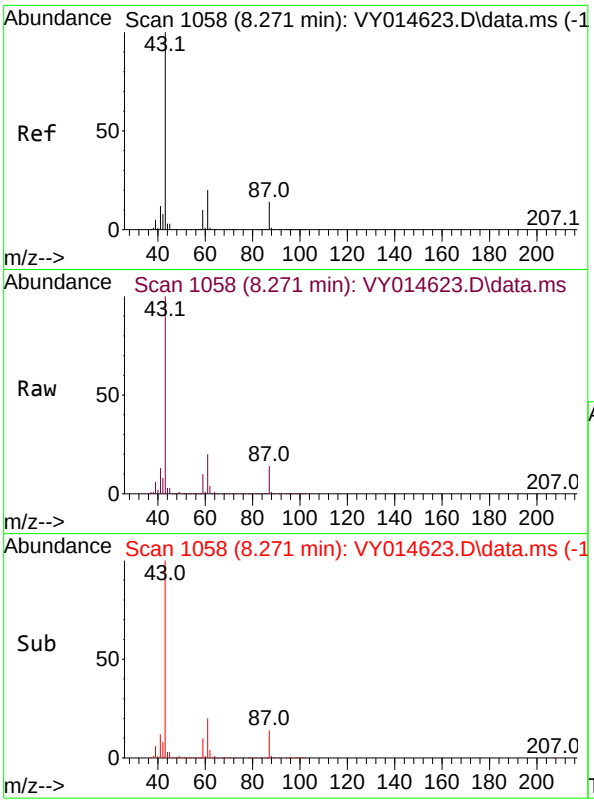


#42
1,2-Dichloroethane
Concen: 52.063 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 62 Resp: 251373

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	15.8

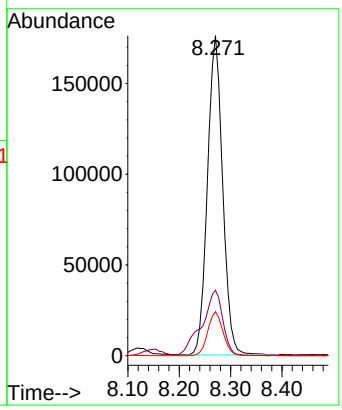




#43
Isopropyl Acetate
Concen: 51.343 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 36099

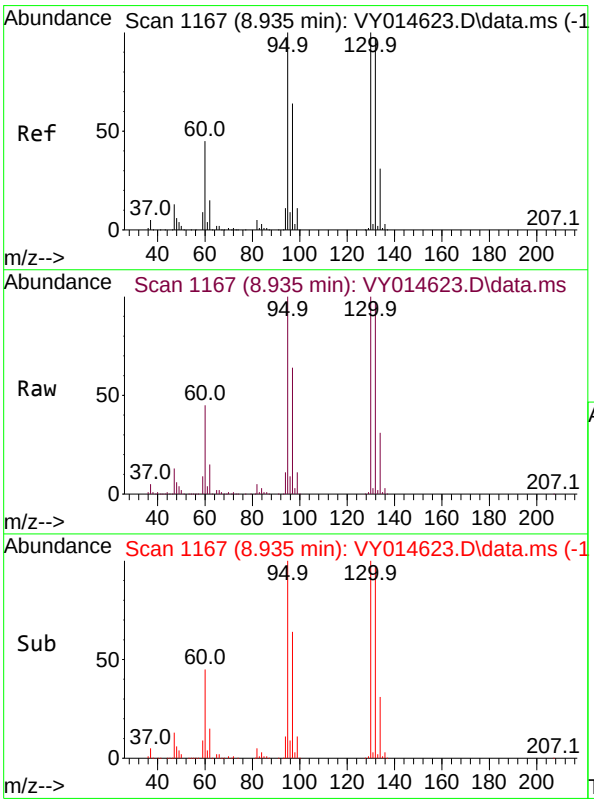
Ion	Ratio	Lower	Upper
43	100		
61	28.2	21.1	31.7
87	13.9	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

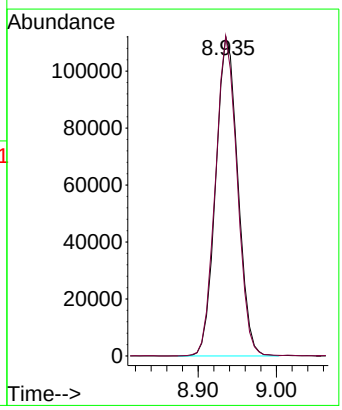
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

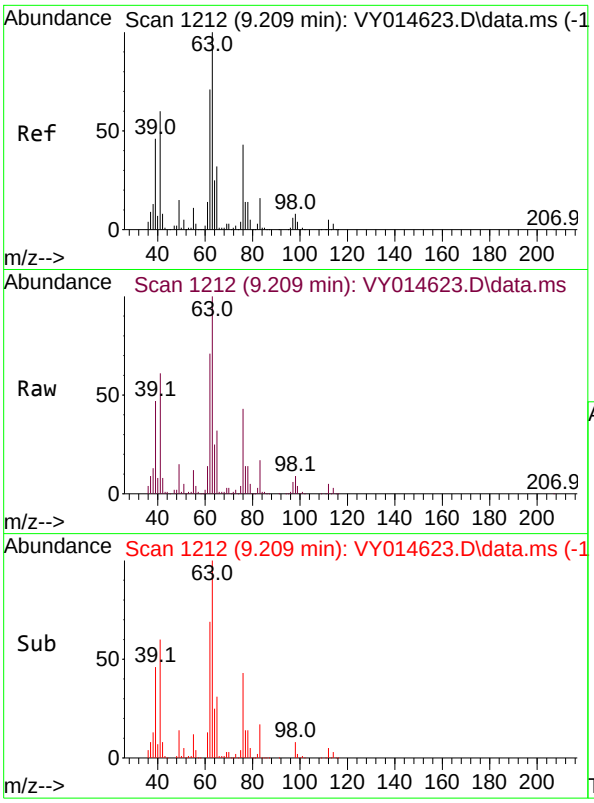


#44
Trichloroethene
Concen: 51.573 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:130 Resp: 220008

Ion	Ratio	Lower	Upper
130	100		
95	100.2	0.0	196.0

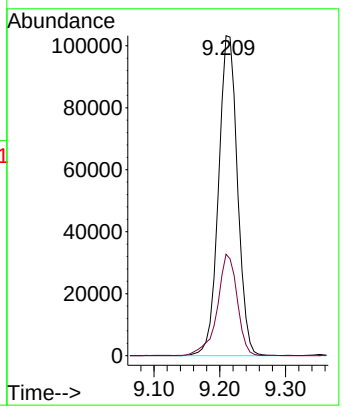




#45
1,2-Dichloropropane
Concen: 51.972 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 63 Resp: 20691

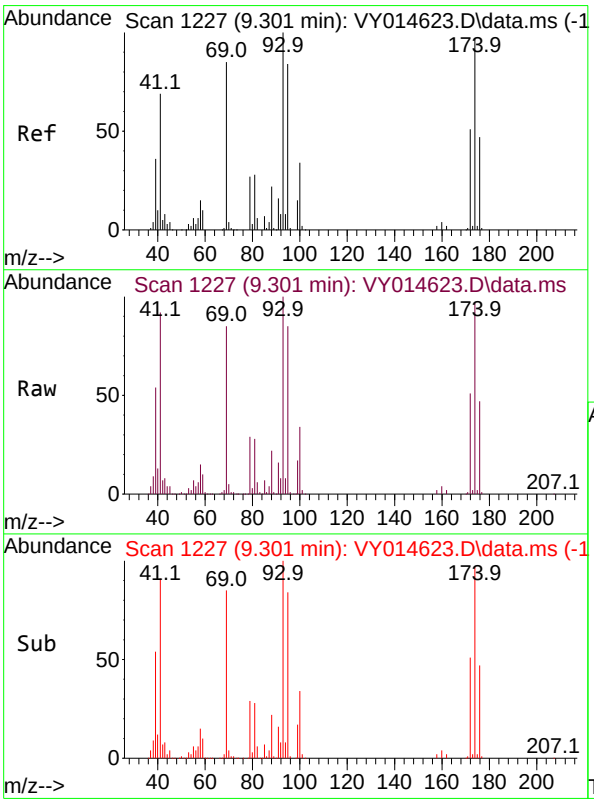
Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

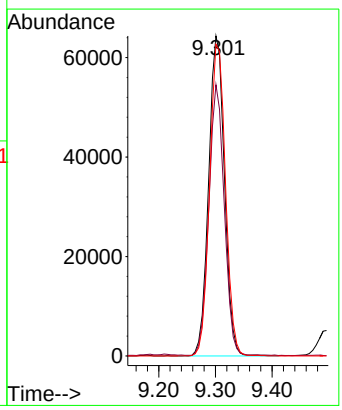
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

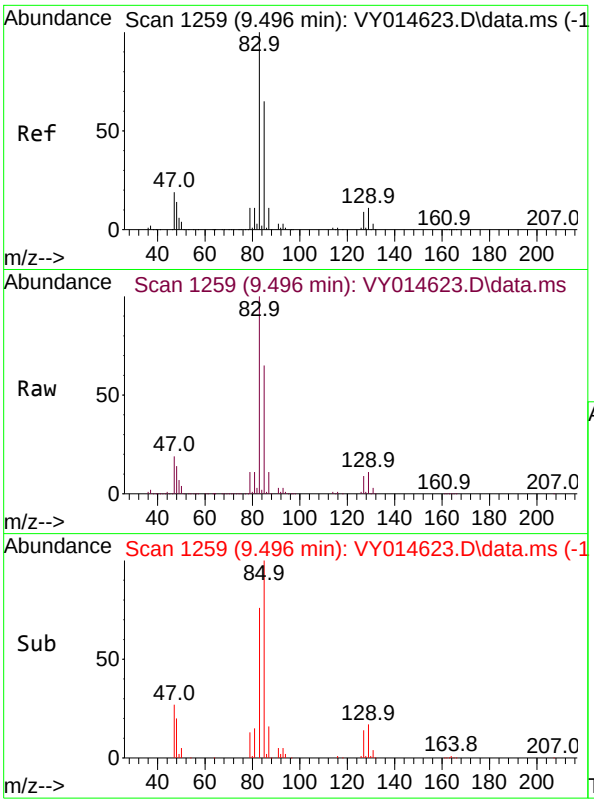


#46
Dibromomethane
Concen: 51.776 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 93 Resp: 125052

Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.6	100.0
174	97.7	84.8	127.2





#47
Bromodichloromethane
Concen: 52.060 ug/l
RT: 9.496 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

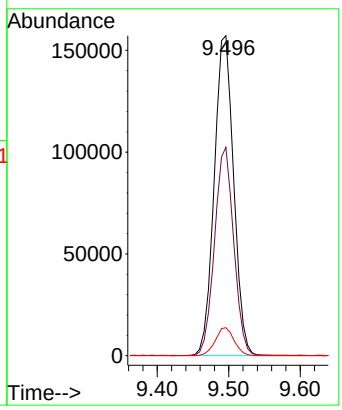
Tgt Ion: 83 Resp: 29635

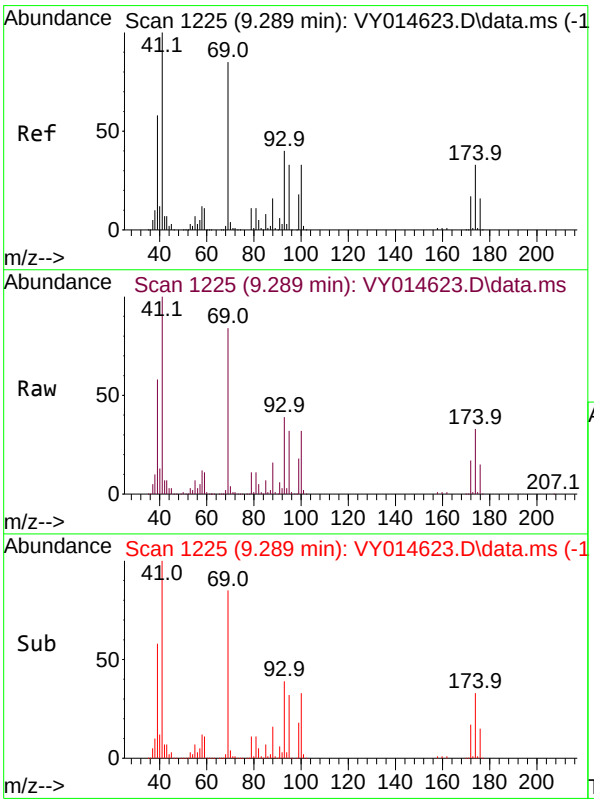
Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.1	75.1
127	8.8	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

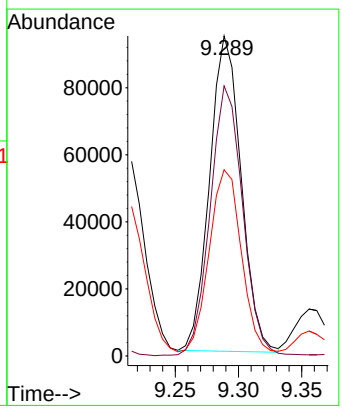


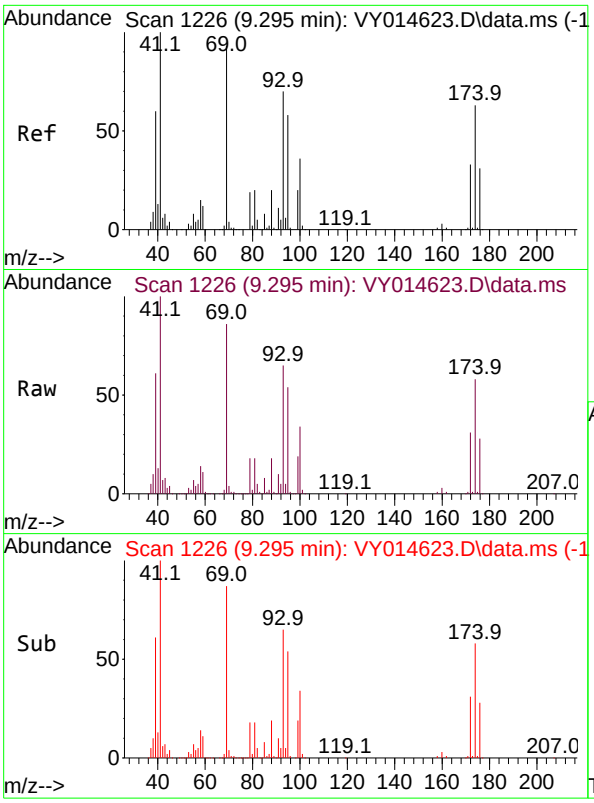


#48
Methyl methacrylate
Concen: 51.427 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 41 Resp: 162702

Ion	Ratio	Lower	Upper
41	100		
69	88.3	64.5	96.7
39	58.9	50.8	76.2

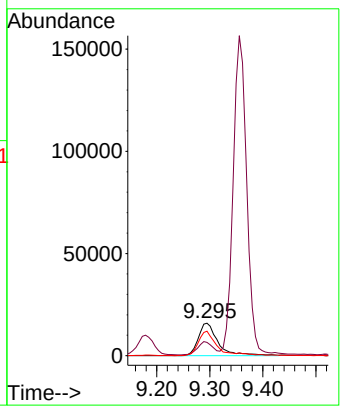




#49
1,4-Dioxane
Concen: 1043.552 ug/l
RT: 9.295 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 88 Resp: 4109

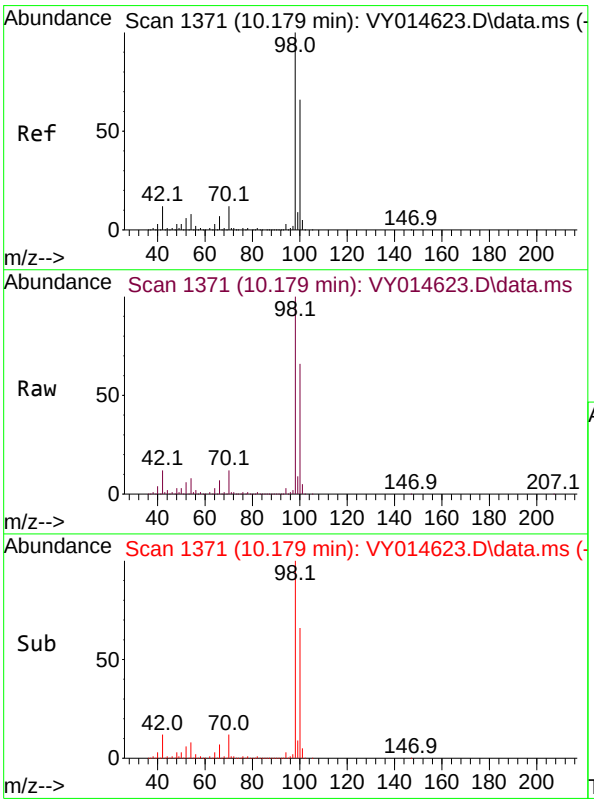
Ion	Ratio	Lower	Upper
88	100		
43	32.3	0.0	0.0#
58	66.2	30.9	46.3#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

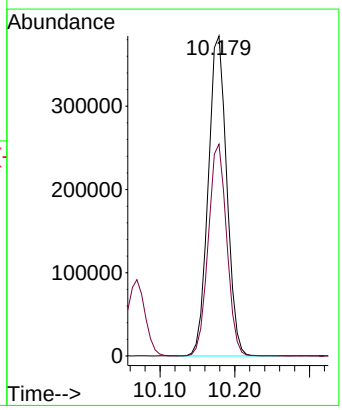
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

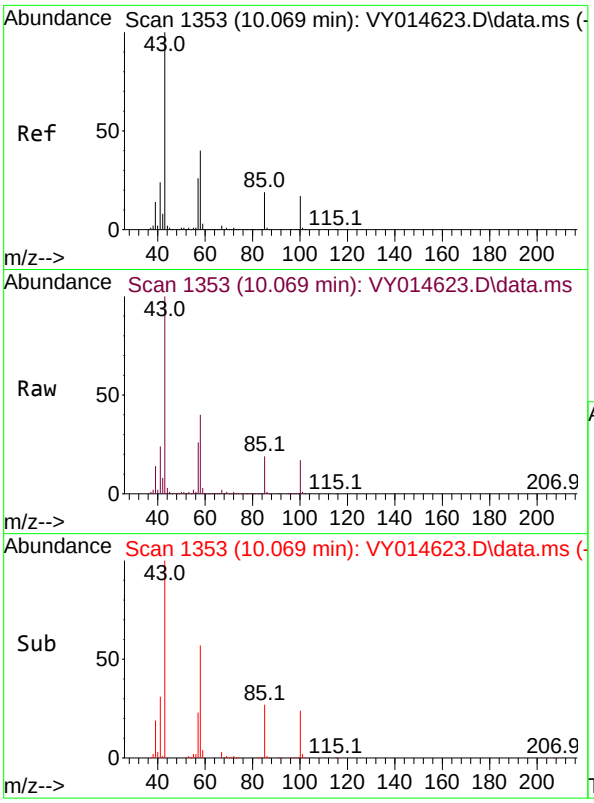


#50
Toluene-d8
Concen: 49.903 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 98 Resp: 659534

Ion	Ratio	Lower	Upper
98	100		
100	65.9	50.1	75.1

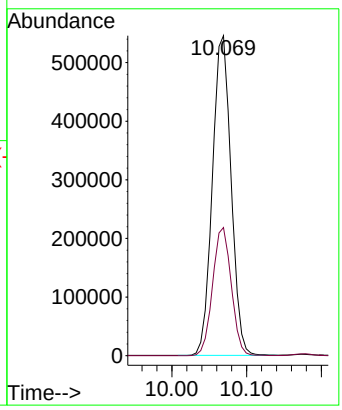




#51
4-Methyl-2-Pentanone
Concen: 256.668 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 94751

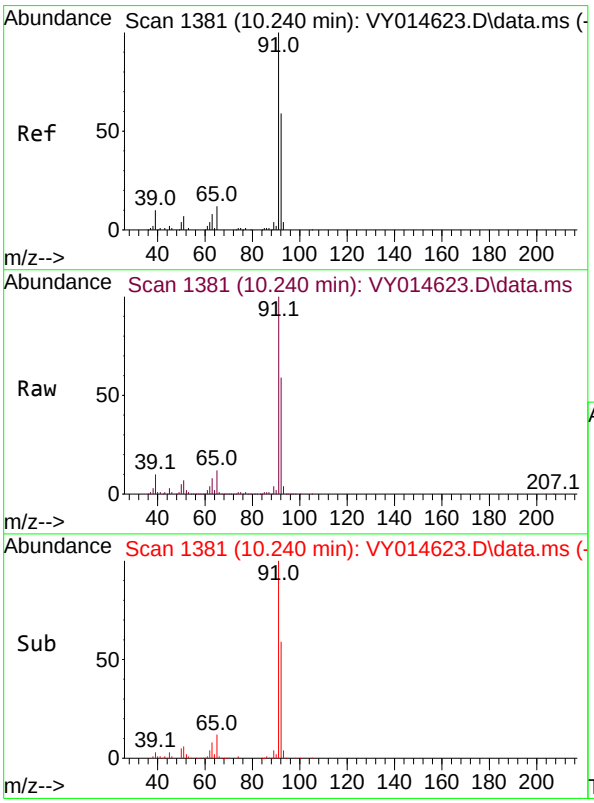
Ion	Ratio	Lower	Upper
43	100		
58	40.0	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

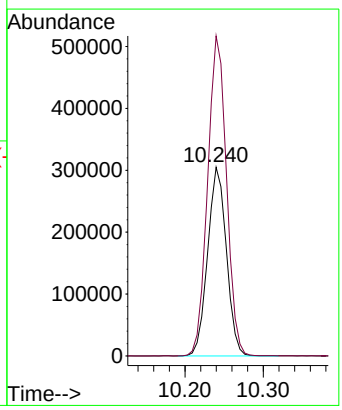
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

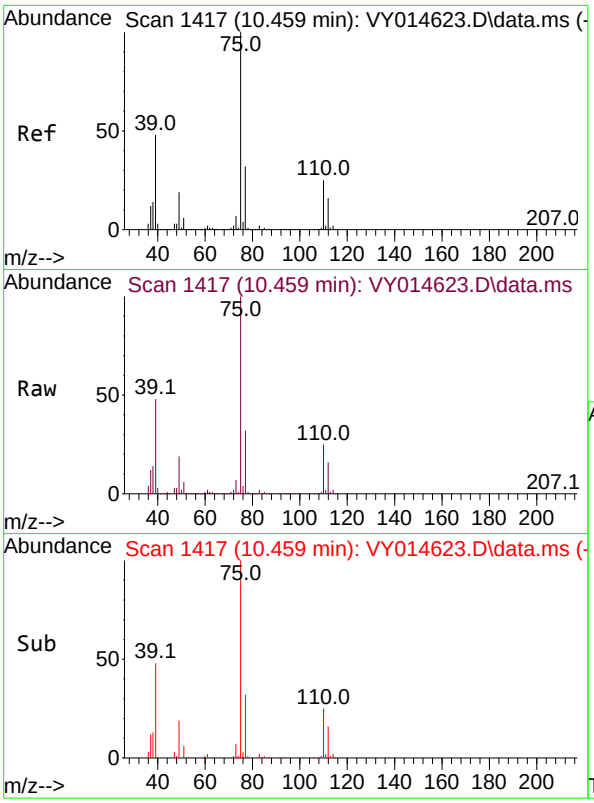


#52
Toluene
Concen: 51.847 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 92 Resp: 505838

Ion	Ratio	Lower	Upper
92	100		
91	170.8	143.8	215.6

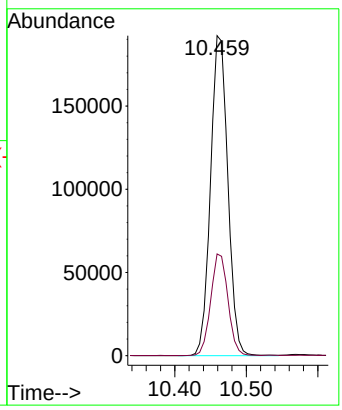




#53
t-1,3-Dichloropropene
Concen: 51.915 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 75 Resp: 32325

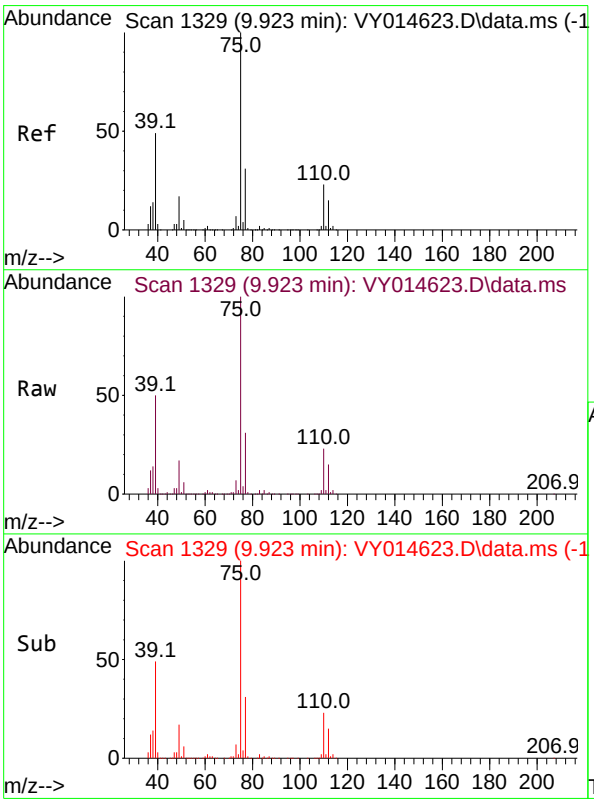
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

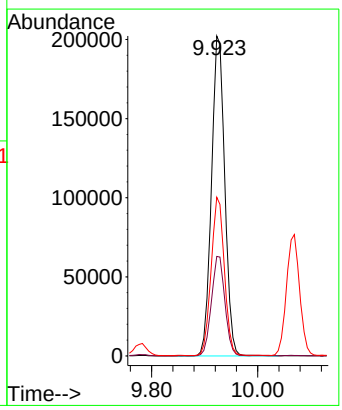
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

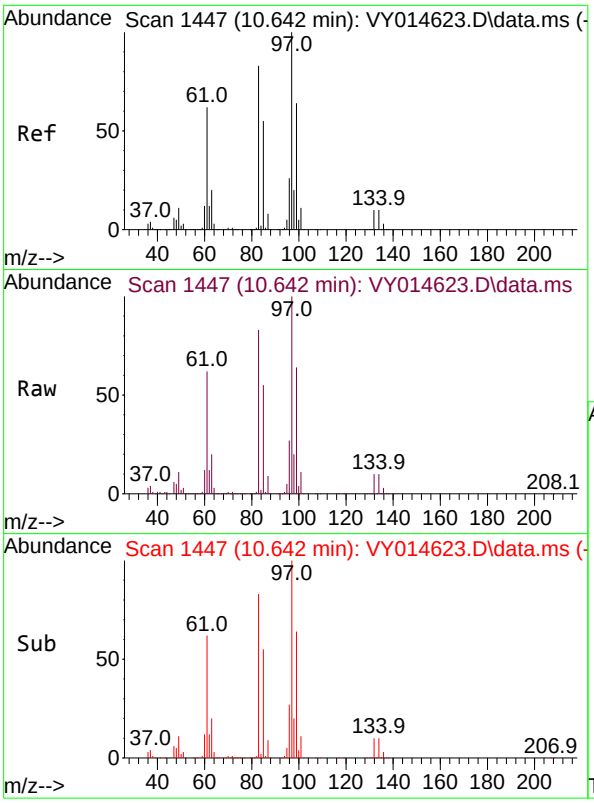


#54
cis-1,3-Dichloropropene
Concen: 52.039 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 75 Resp: 352370

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.2	36.4
39	49.4	42.2	63.4

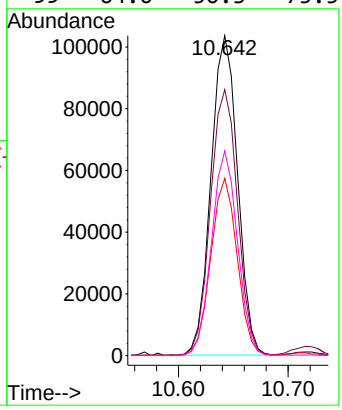




#55
1,1,2-Trichloroethane
Concen: 51.932 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 97 Resp: 17471

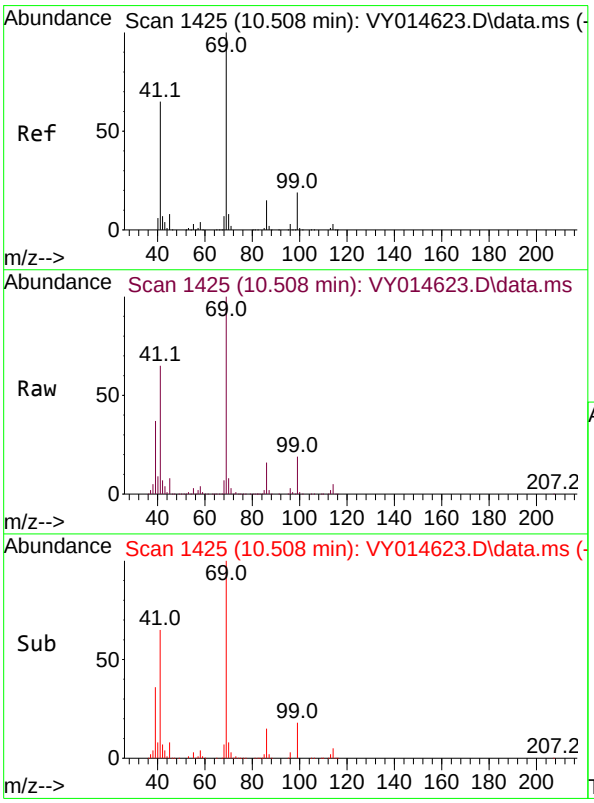
Ion	Ratio	Lower	Upper
97	100		
83	83.2	72.0	108.0
85	55.3	45.4	68.0
99	64.0	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

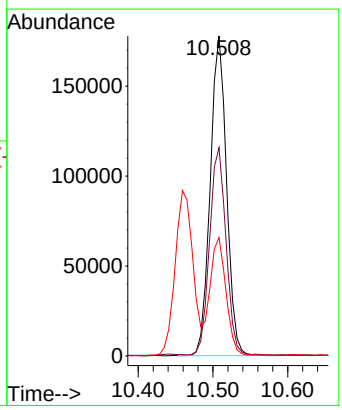
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

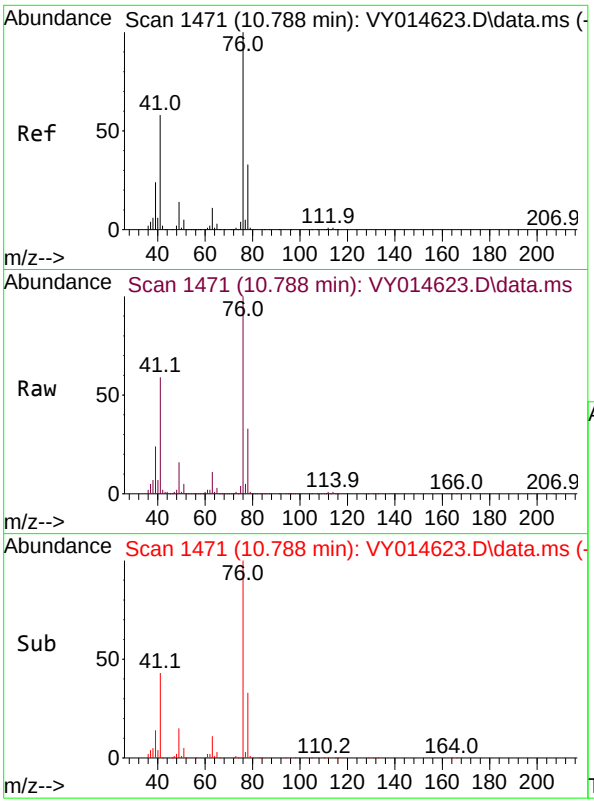


#56
Ethyl methacrylate
Concen: 52.497 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 69 Resp: 269667

Ion	Ratio	Lower	Upper
69	100		
41	65.3	57.6	86.4
39	36.7	34.1	51.1

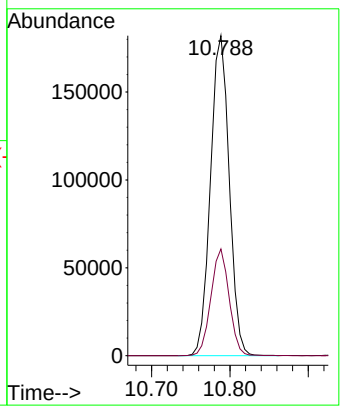




#57
1,3-Dichloropropane
Concen: 52.185 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 76 Resp: 30282

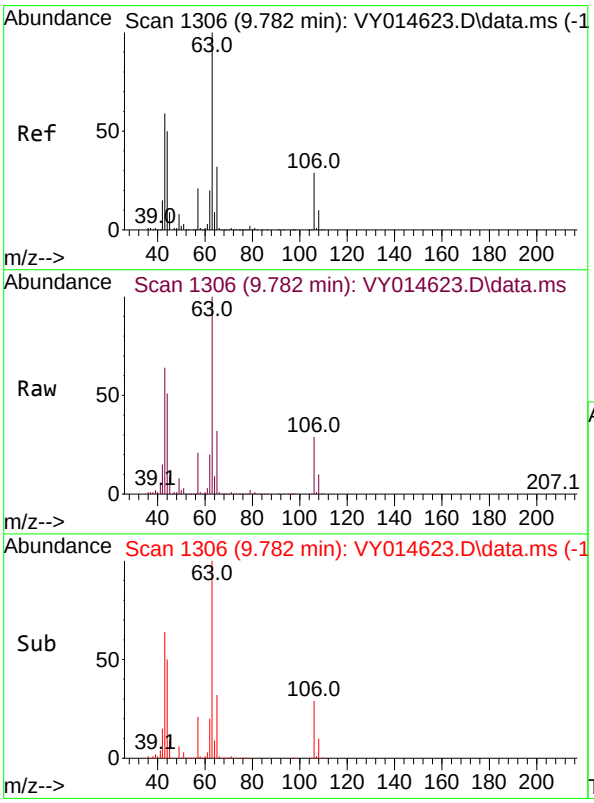
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

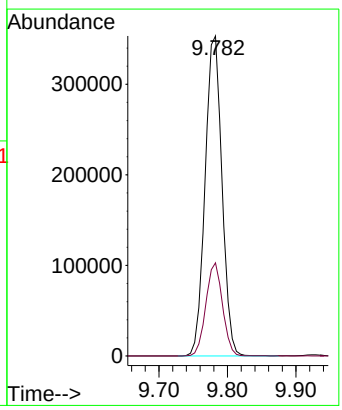
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

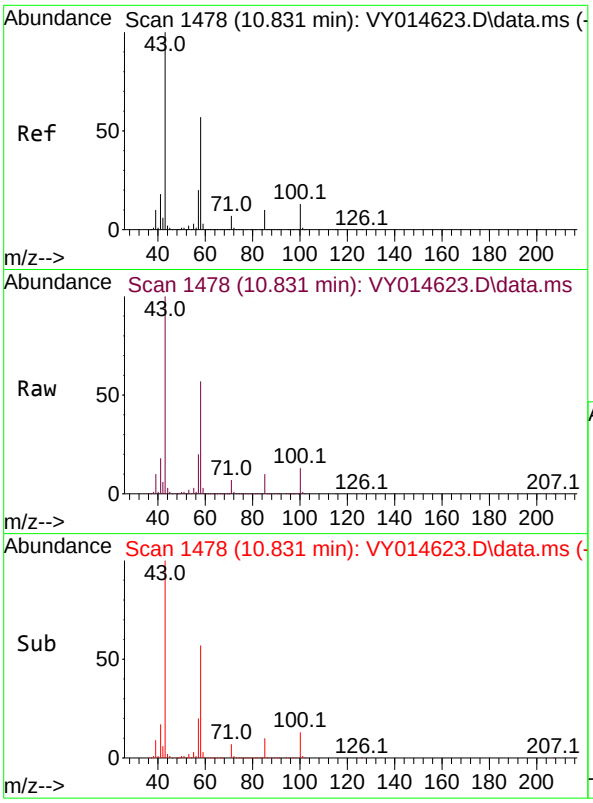


#58
2-Chloroethyl Vinyl ether
Concen: 252.723 ug/l
RT: 9.782 min Scan# 1306
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 63 Resp: 604885

Ion	Ratio	Lower	Upper
63	100		
106	28.7	21.2	31.8





#59
2-Hexanone
Concen: 259.412 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

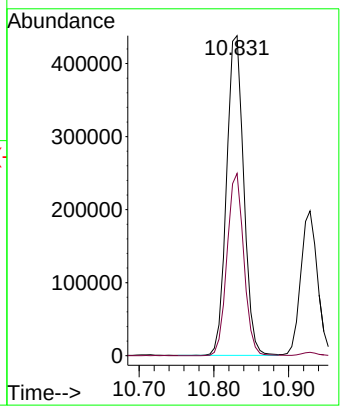
Tgt Ion: 43 Resp: 69836

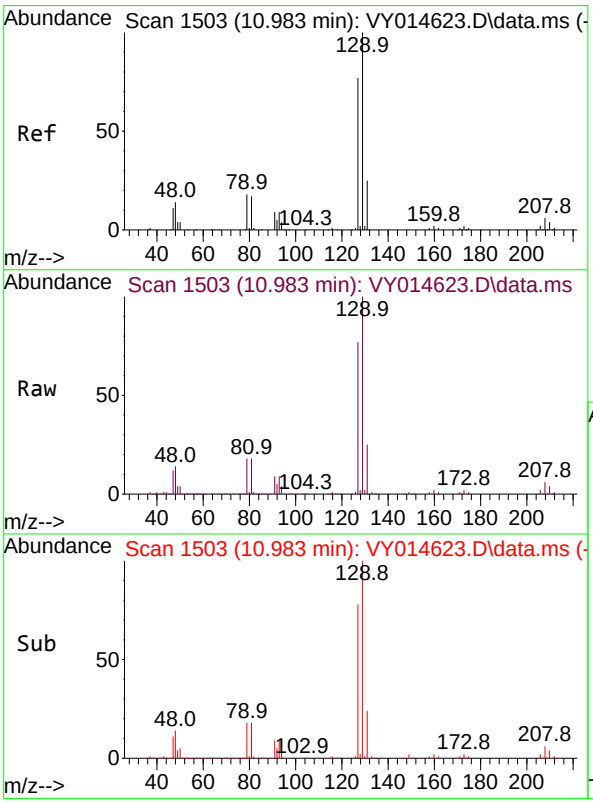
Ion	Ratio	Lower	Upper
43	100		
58	55.7	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

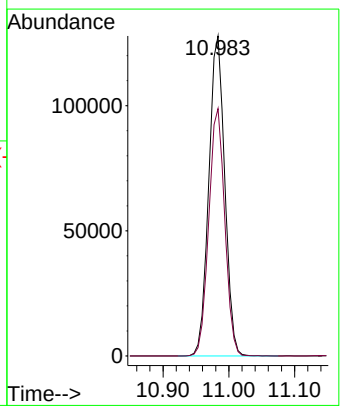


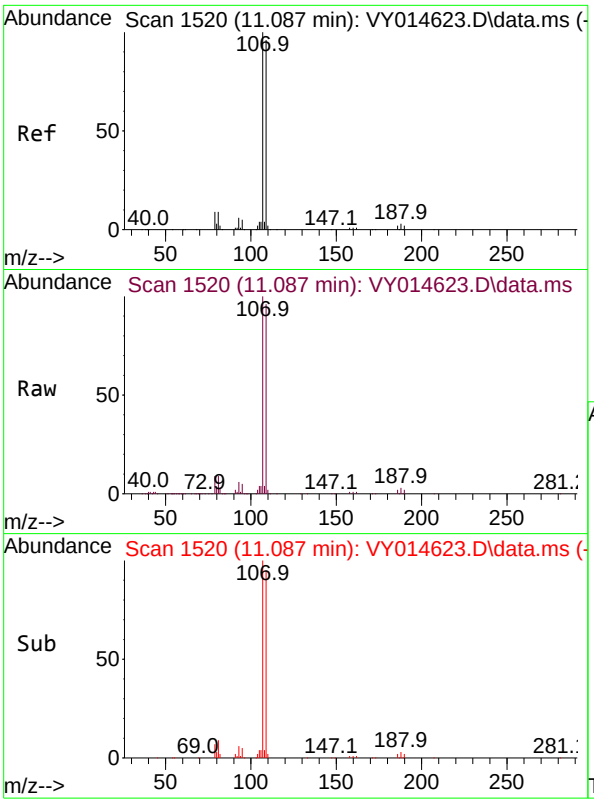


#60
Dibromochloromethane
Concen: 52.231 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:129 Resp: 215448

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5

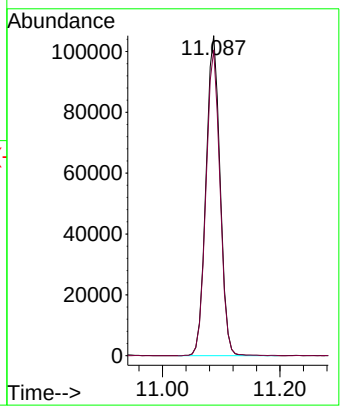




#61
1,2-Dibromoethane
Concen: 52.061 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:107 Resp: 17473

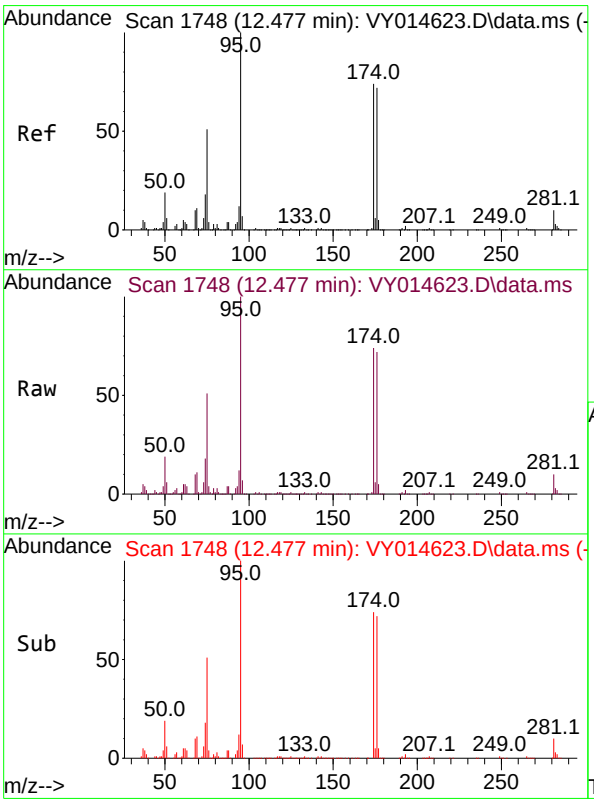
Ion	Ratio	Lower	Upper
107	100		
109	95.2	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

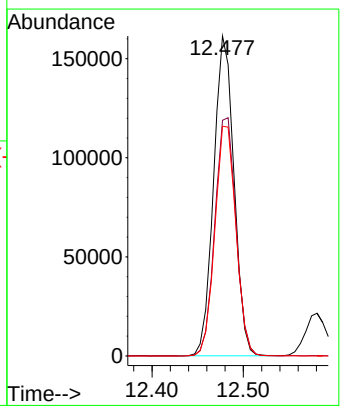
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

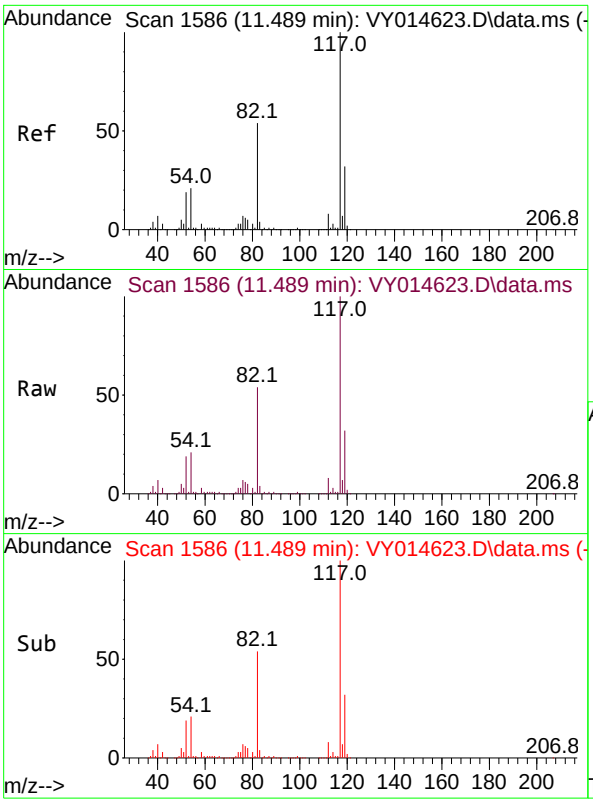


#62
4-Bromofluorobenzene
Concen: 49.334 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 95 Resp: 250009

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	178.2
176	74.5	0.0	173.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

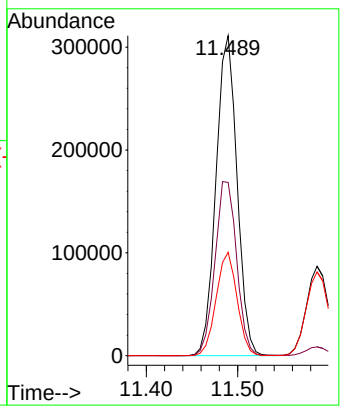
Tgt Ion:117 Resp: 49849

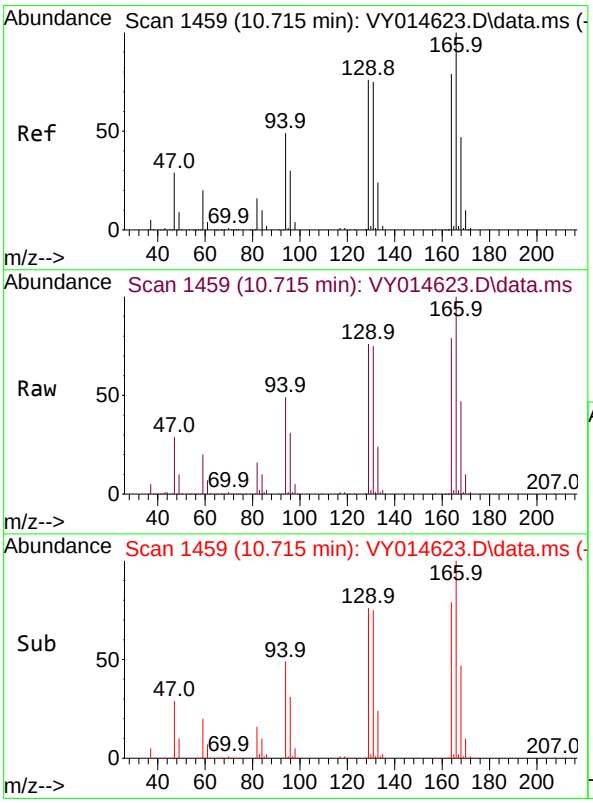
Ion	Ratio	Lower	Upper
117	100		
82	54.2	43.4	65.0
119	32.3	26.3	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

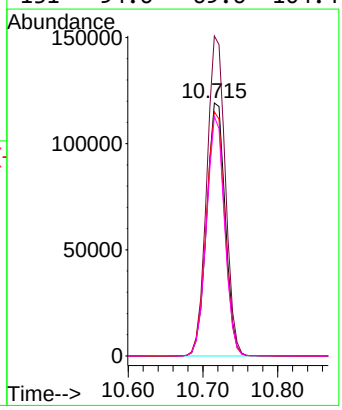


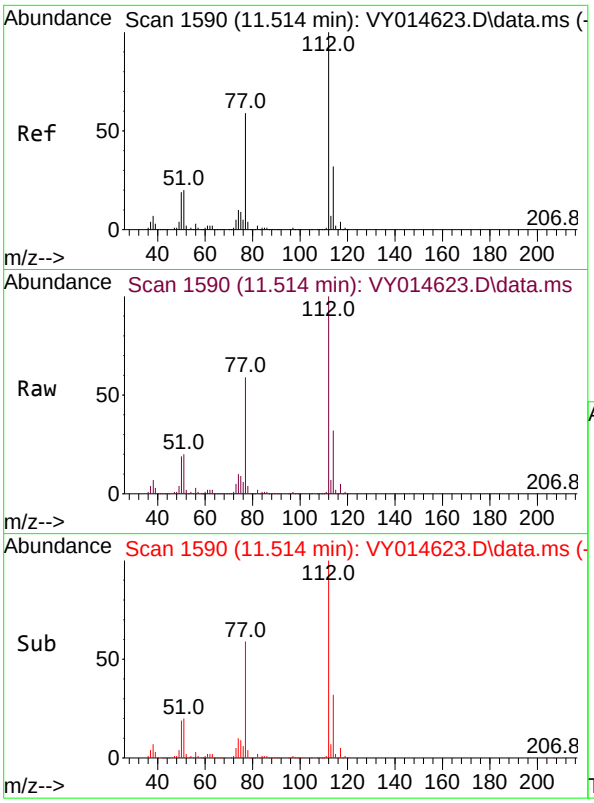


#64
Tetrachloroethene
Concen: 51.179 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:164 Resp: 205186

Ion	Ratio	Lower	Upper
164	100		
166	126.5	103.0	154.6
129	96.5	77.2	115.8
131	94.6	69.6	104.4

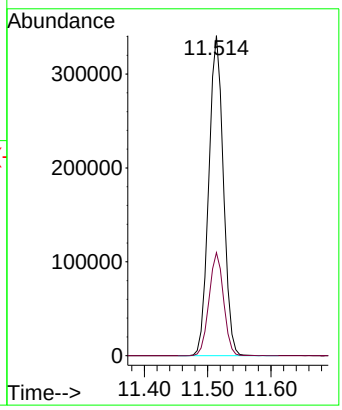




#65
Chlorobenzene
Concen: 51.487 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:112 Resp: 54692

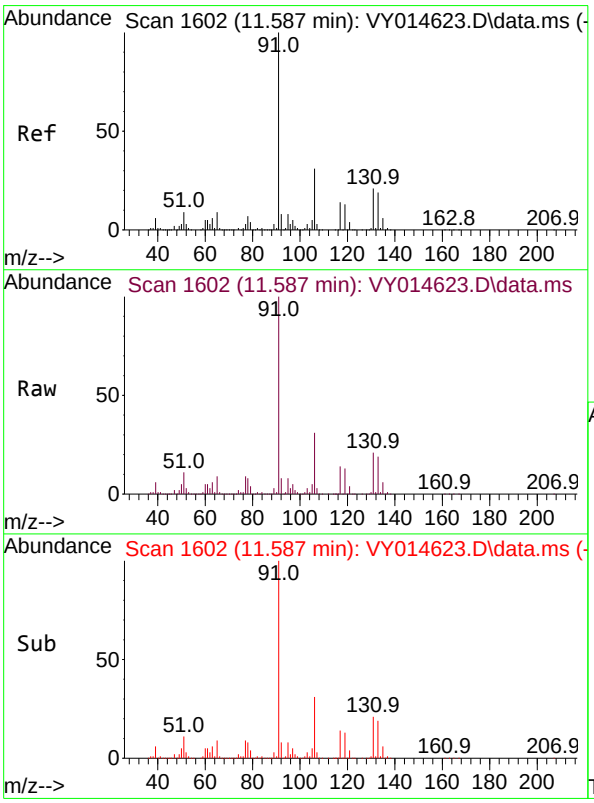
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

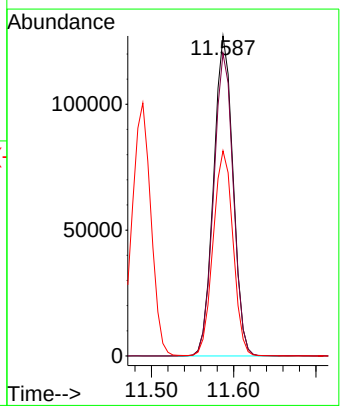
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

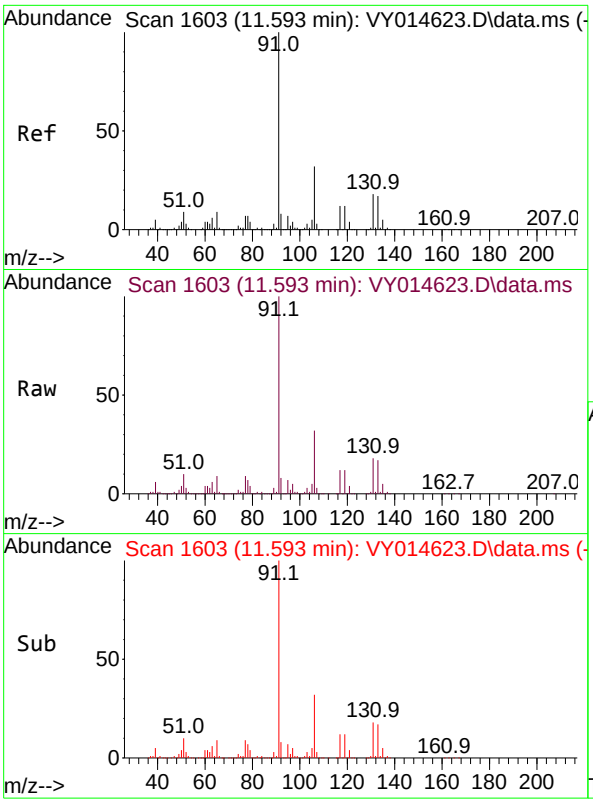


#66
1,1,1,2-Tetrachloroethane
Concen: 52.190 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:131 Resp: 209033

Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.5	142.6
119	65.5	31.6	94.7





#67
Ethyl Benzene
Concen: 51.924 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

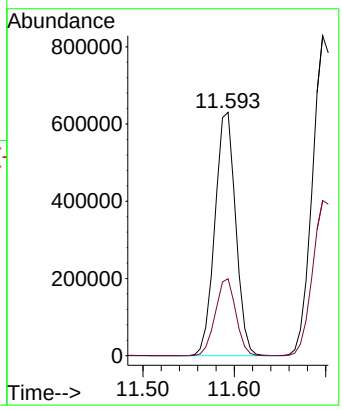
Tgt Ion: 91 Resp: 99587

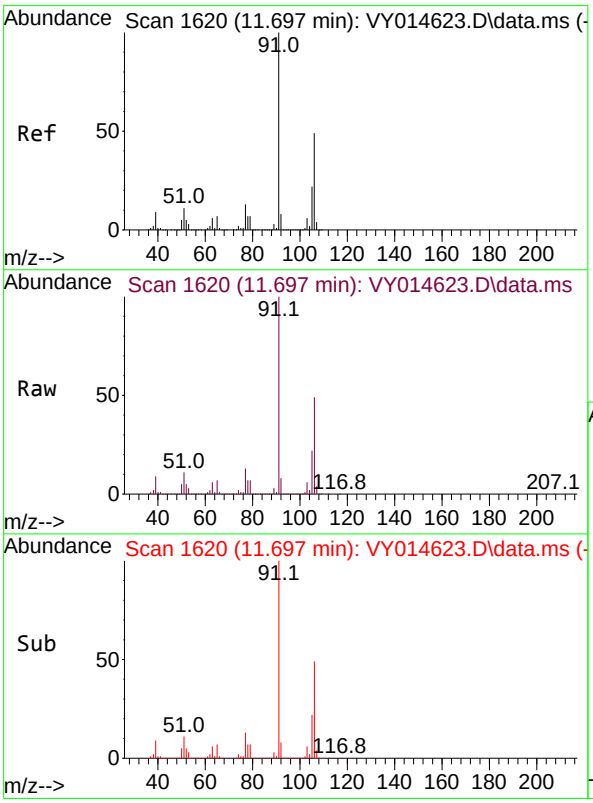
Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.6	36.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

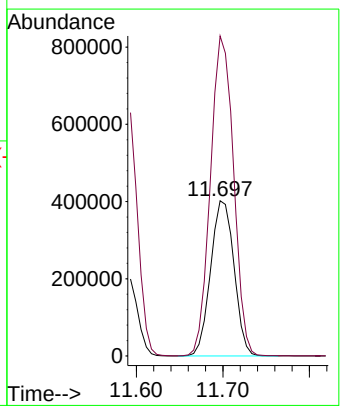


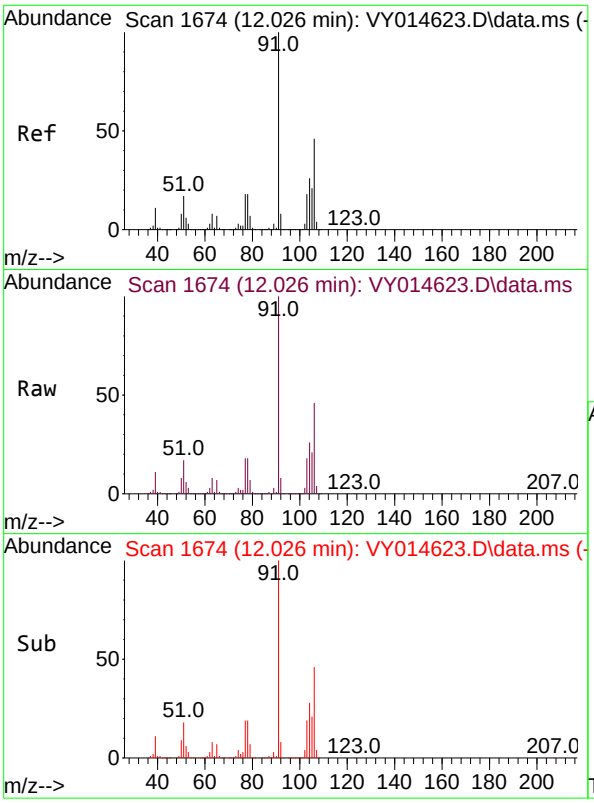


#68
m/p-Xylenes
Concen: 103.166 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:106 Resp: 755304

Ion	Ratio	Lower	Upper
106	100		
91	203.9	166.1	249.1

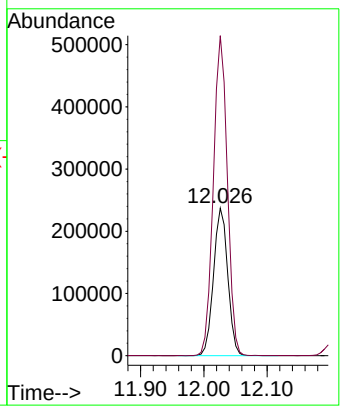




#69
o-Xylene
Concen: 51.748 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:106 Resp: 36901

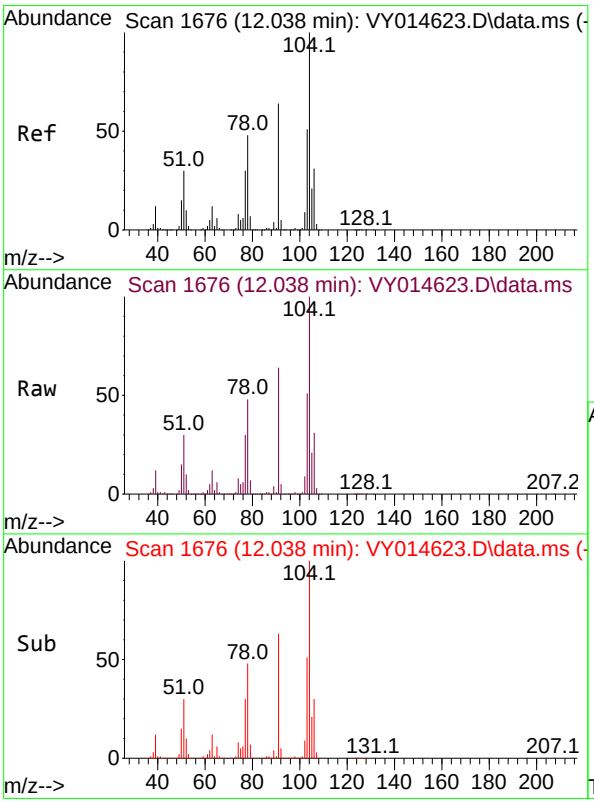
Ion	Ratio	Lower	Upper
106	100		
91	213.7	108.1	324.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

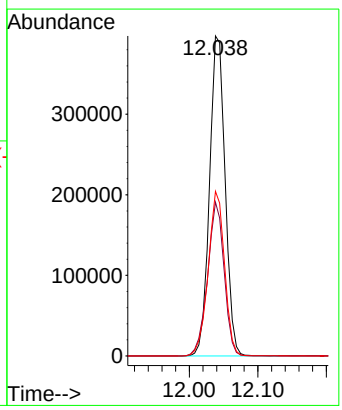
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

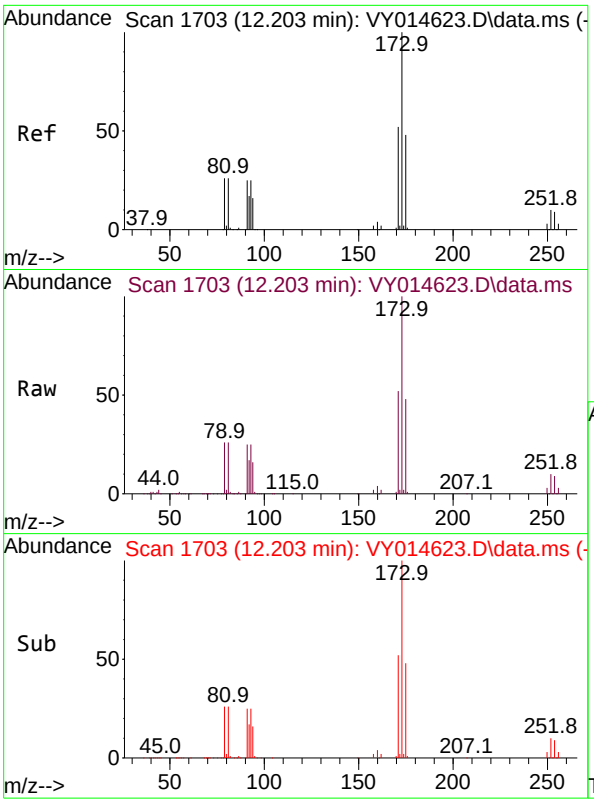


#70
Styrene
Concen: 52.355 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:104 Resp: 629233

Ion	Ratio	Lower	Upper
104	100		
78	50.9	41.5	62.3
103	54.0	44.6	67.0

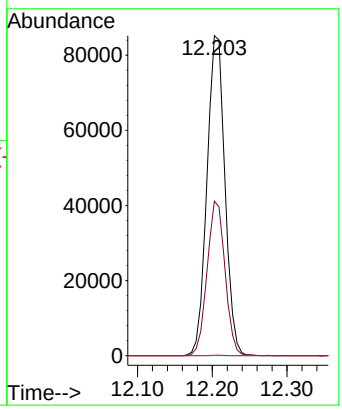




#71
Bromoform
Concen: 52.506 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:173 Resp: 14254

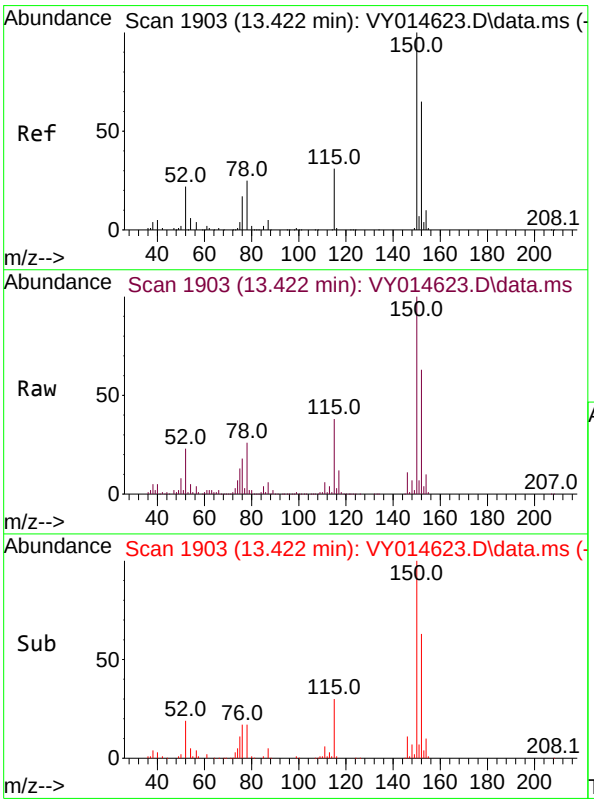
Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

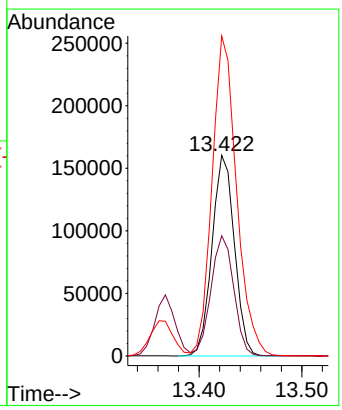
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

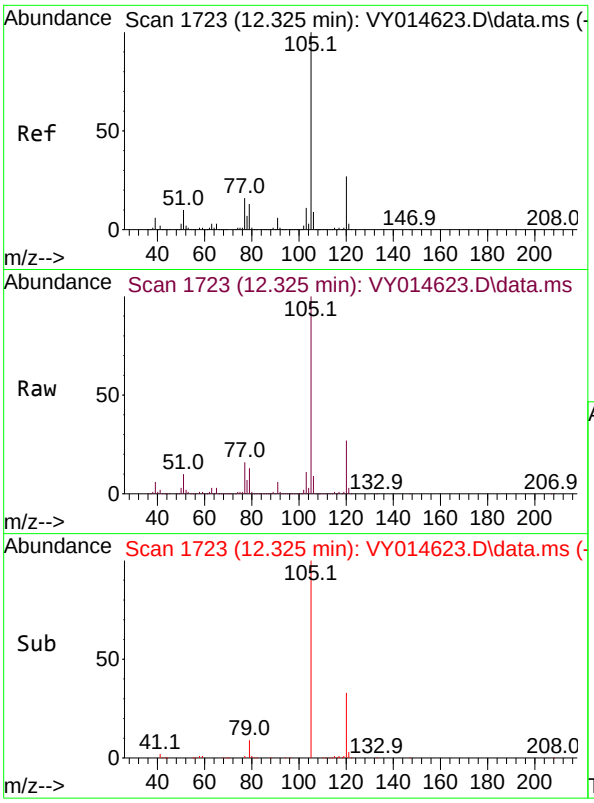


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:152 Resp: 242799

Ion	Ratio	Lower	Upper
152	100		
115	60.7	28.8	86.5
150	174.4	0.0	348.8





#73
Isopropylbenzene
Concen: 51.154 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

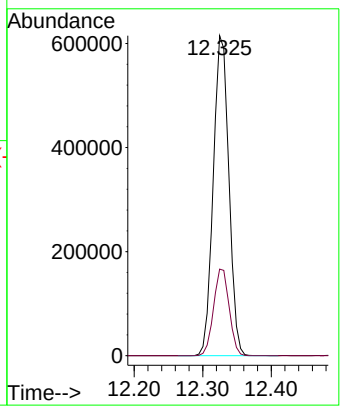
Tgt Ion:105 Resp: 97251

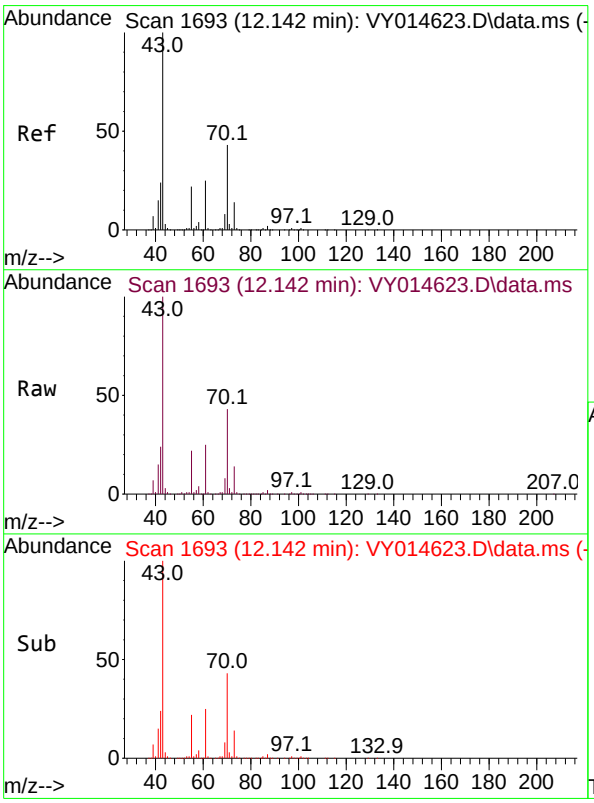
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.3	39.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

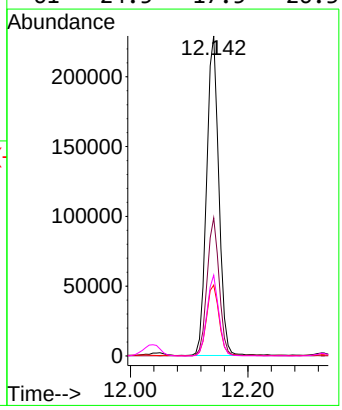


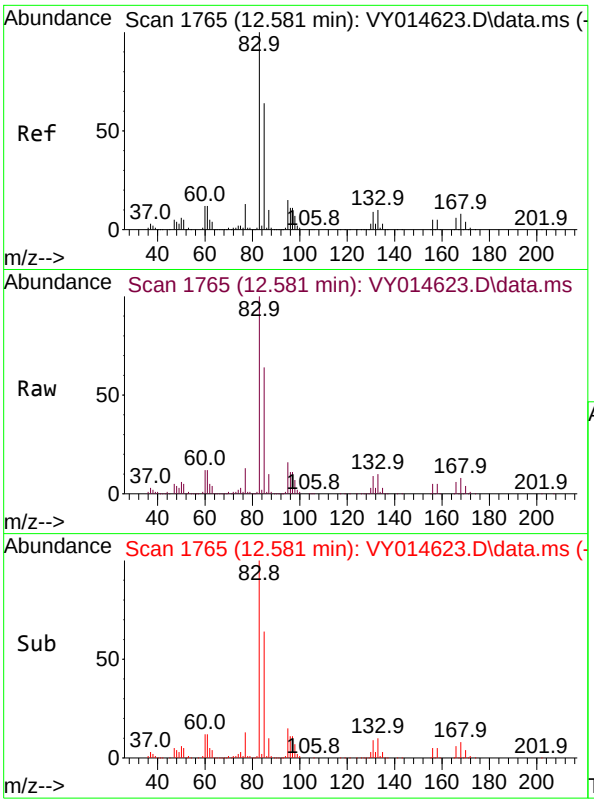


#74
N-amyl acetate
Concen: 51.882 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 43 Resp: 330344

Ion	Ratio	Lower	Upper
43	100		
70	42.8	29.7	44.5
55	22.4	18.3	27.5
61	24.5	17.5	26.3

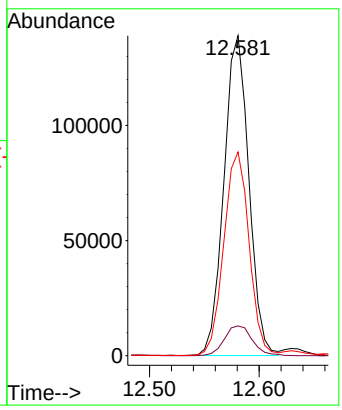




#75
1,1,2,2-Tetrachloroethane
Concen: 50.688 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 83 Resp: 21975

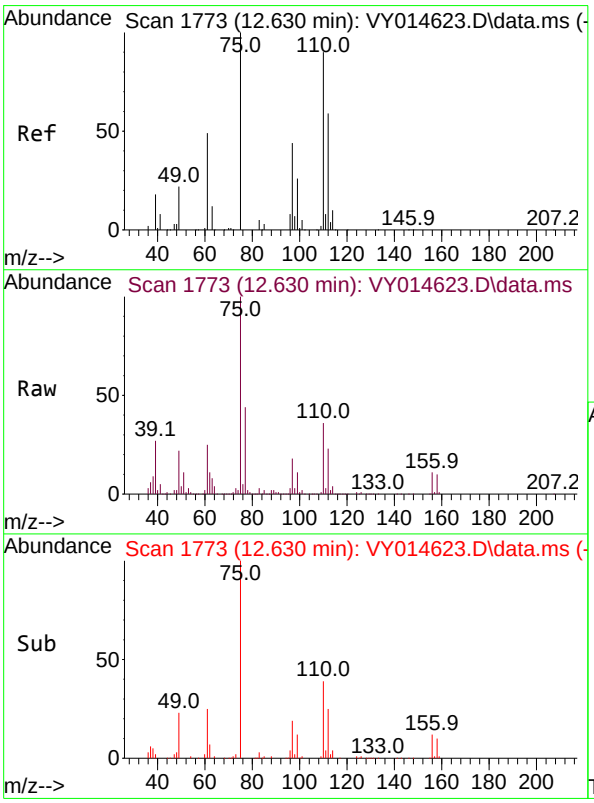
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.4	16.2
85	64.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

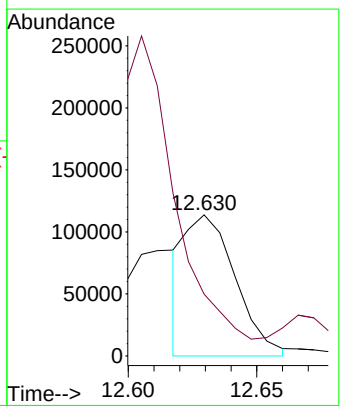
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

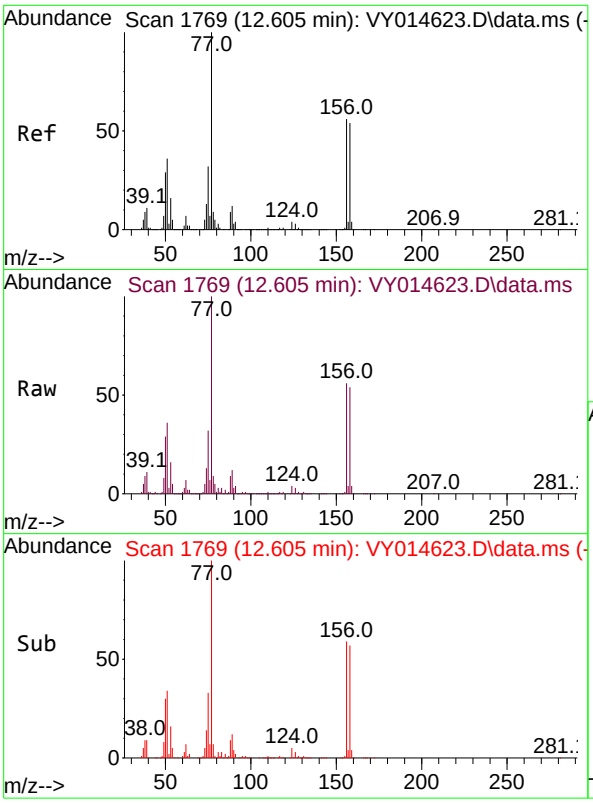


#76
1,2,3-Trichloropropane
Concen: 50.087 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 75 Resp: 155630

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

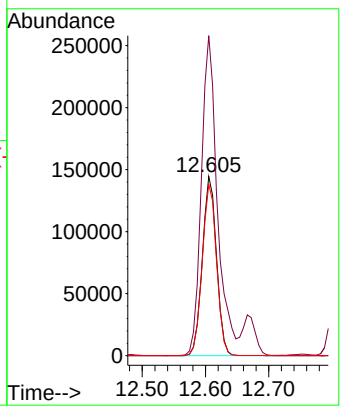




#77
Bromobenzene
Concen: 52.010 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:156 Resp: 22570

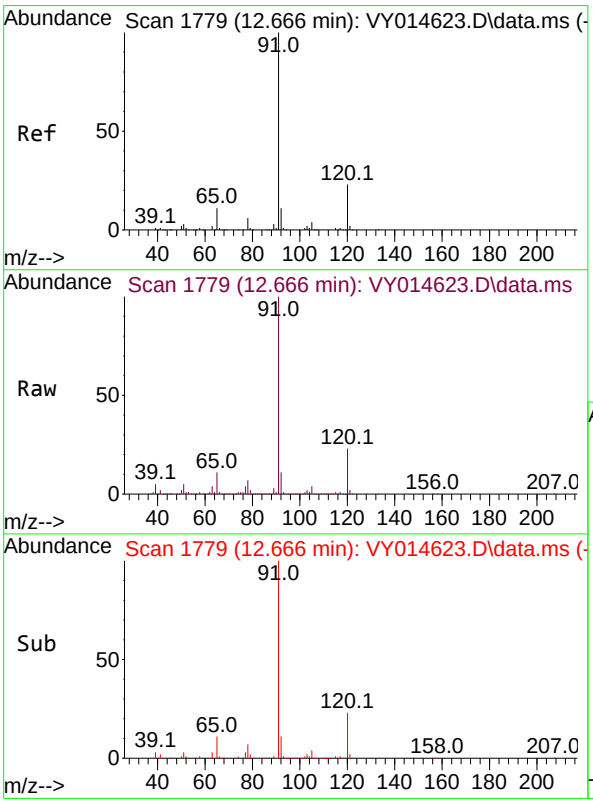
Ion	Ratio	Lower	Upper
156	100		
77	201.0	92.8	278.6
158	96.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

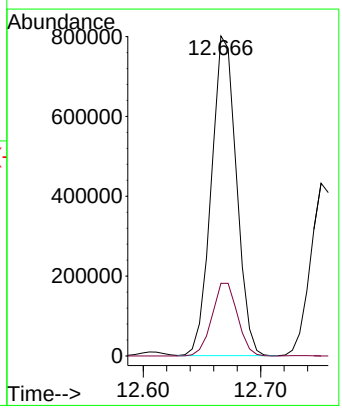
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

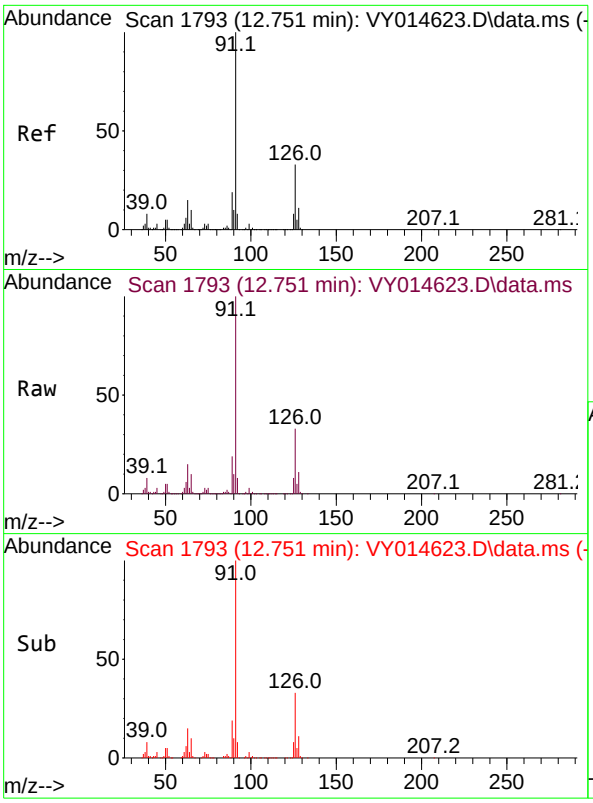


#78
n-propylbenzene
Concen: 51.944 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 91 Resp: 1189972

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.4

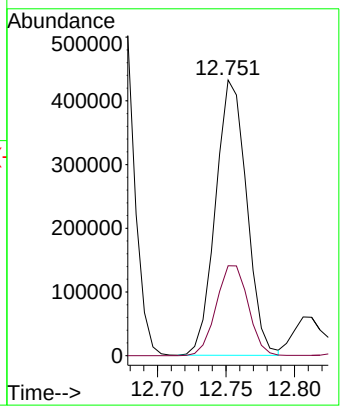




#79
2-Chlorotoluene
Concen: 51.803 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 91 Resp: 68354

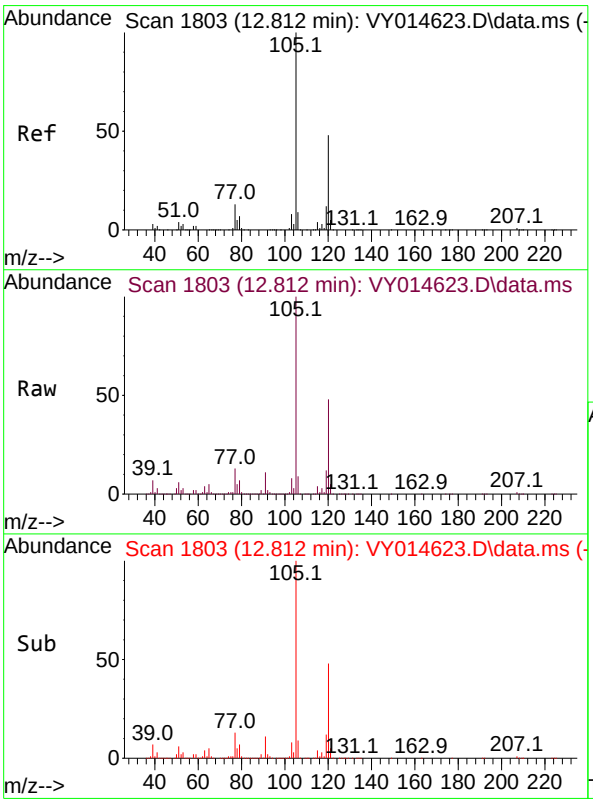
Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.3	51.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

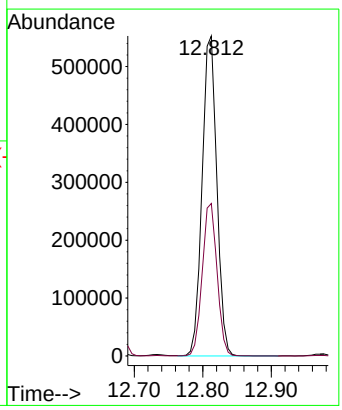
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

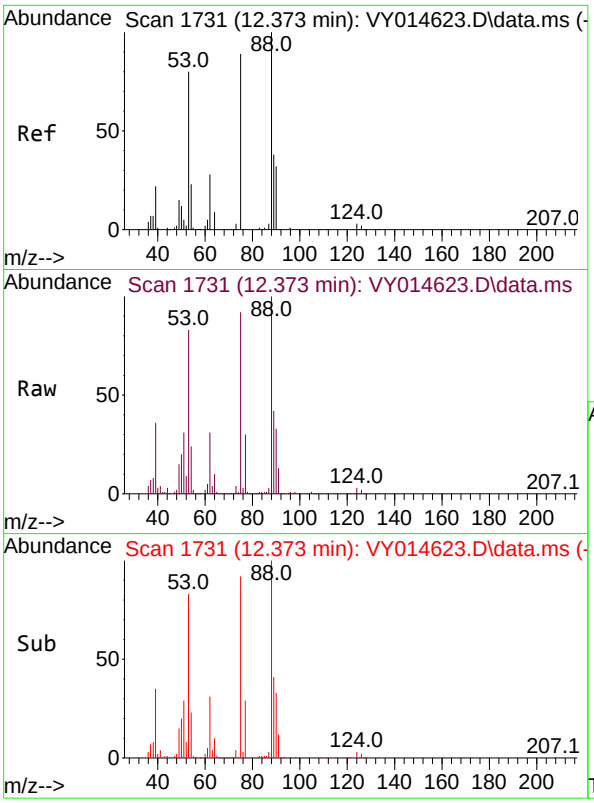


#80
1,3,5-Trimethylbenzene
Concen: 51.974 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:105 Resp: 825197

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 52.111 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

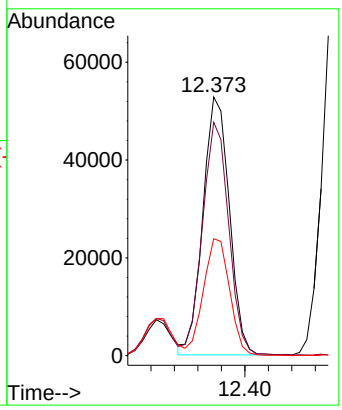
Tgt Ion: 75 Resp: 8253

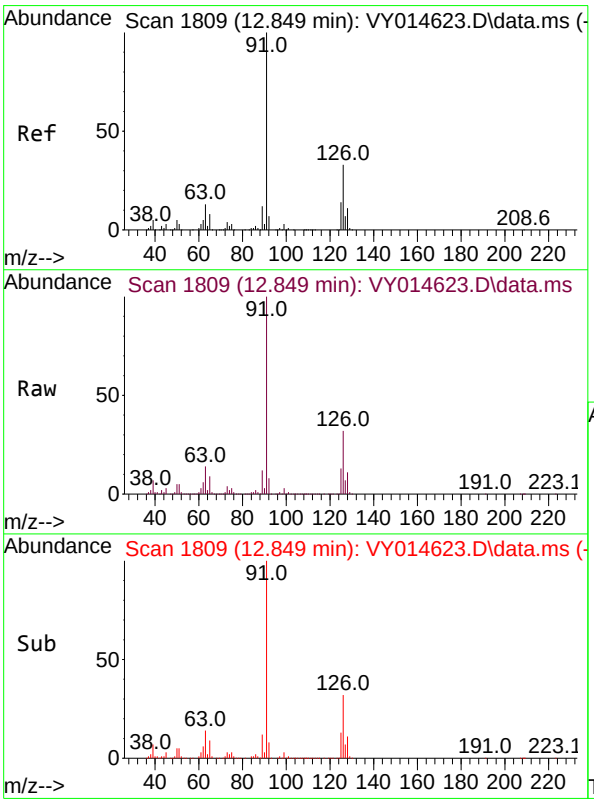
Ion	Ratio	Lower	Upper
75	100		
53	90.2	77.8	116.8
89	45.1	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

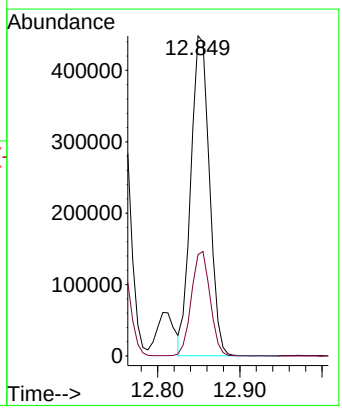


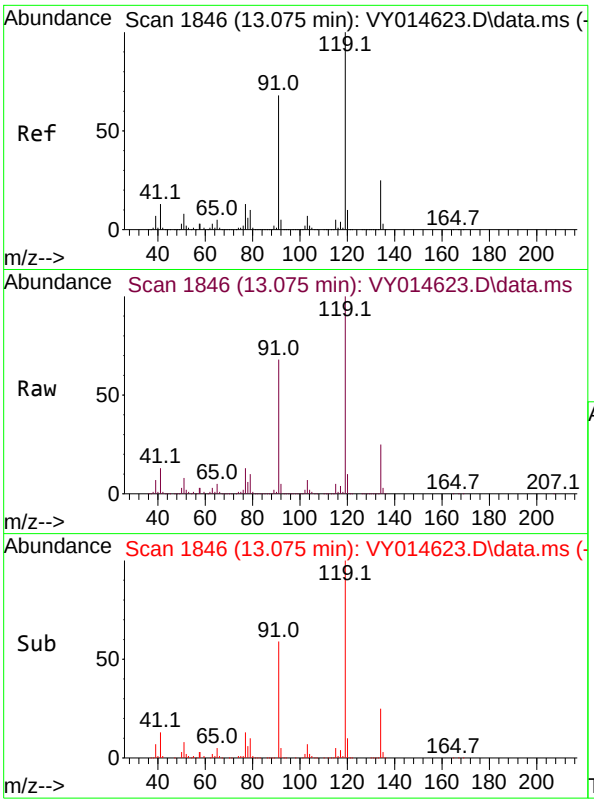


#82
4-Chlorotoluene
Concen: 51.769 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 91 Resp: 703520

Ion	Ratio	Lower	Upper
91	100		
126	33.0	17.2	51.6

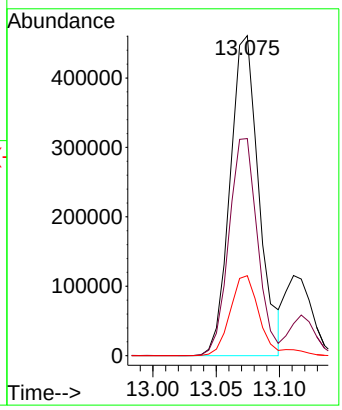




#83
tert-Butylbenzene
Concen: 51.979 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:119 Resp: 73207

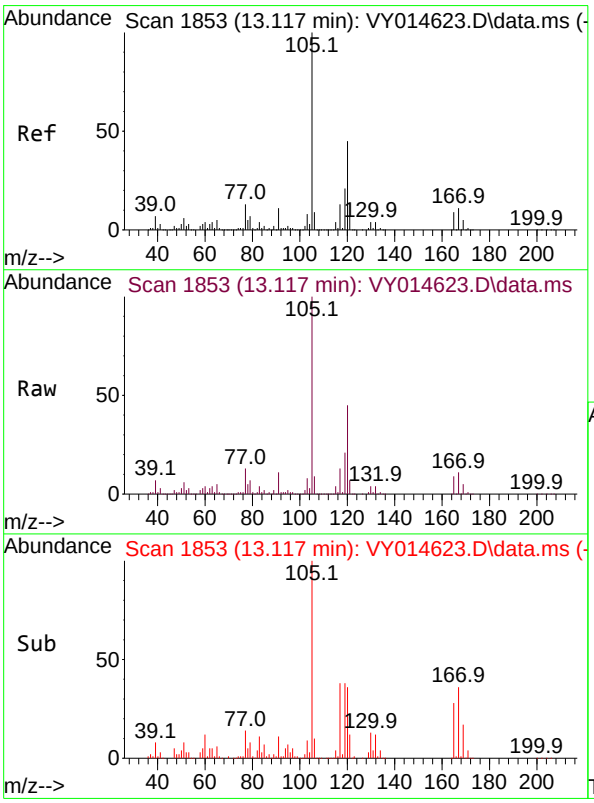
Ion	Ratio	Lower	Upper
119	100		
91	67.2	32.9	98.6
134	26.1	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

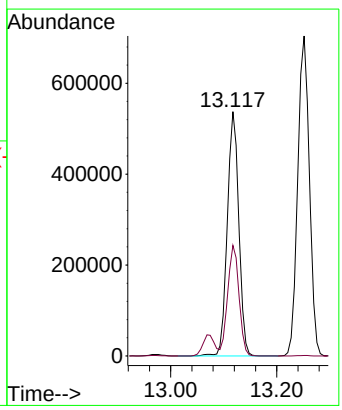
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

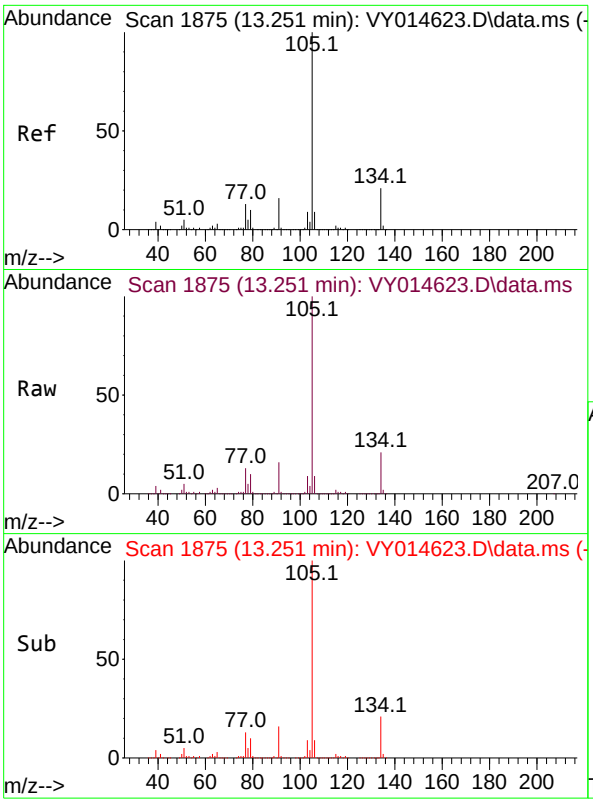


#84
1,2,4-Trimethylbenzene
Concen: 51.904 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:105 Resp: 808749

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.2	66.6

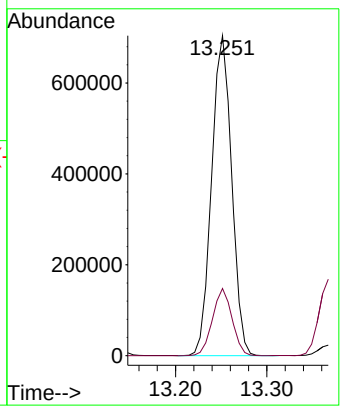




#85
sec-Butylbenzene
Concen: 51.933 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:105 Resp: 107295

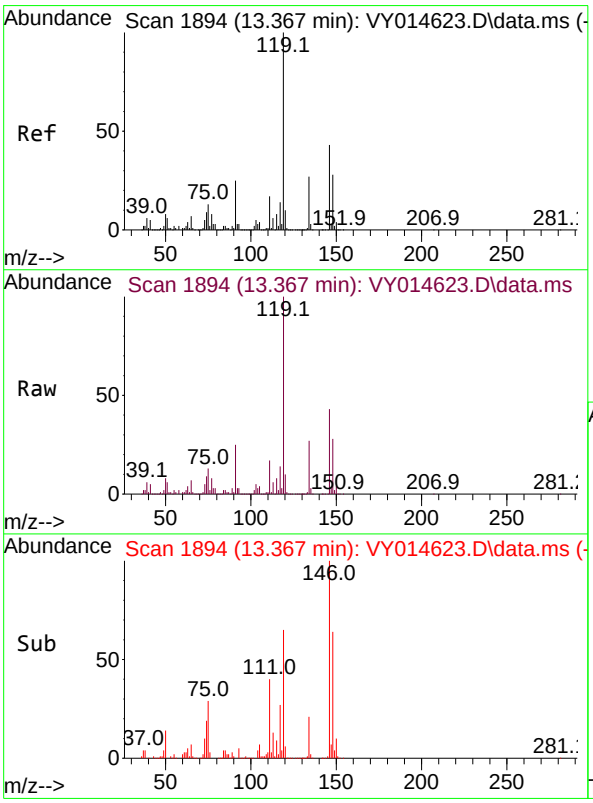
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

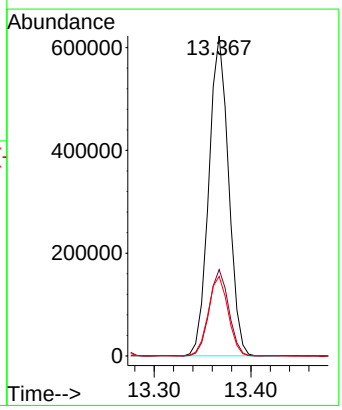
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

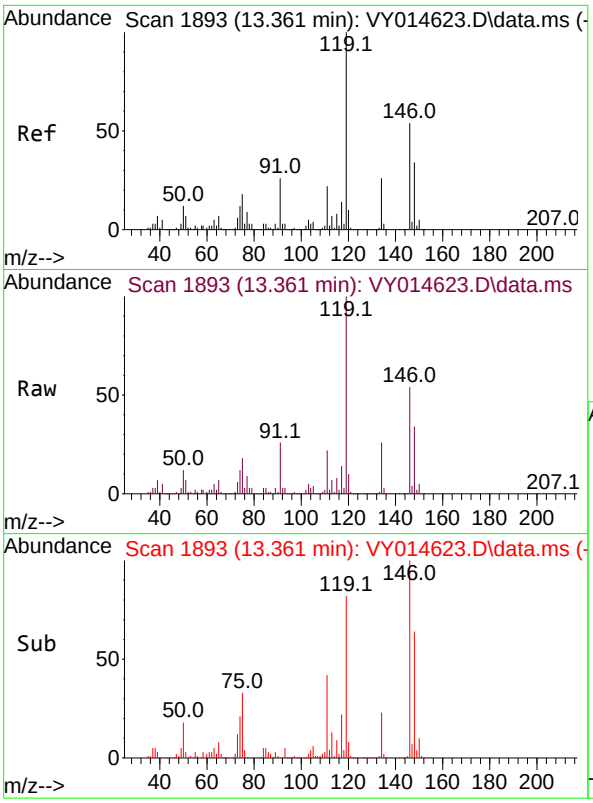


#86
p-Isopropyltoluene
Concen: 52.324 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:119 Resp: 882628

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.3	39.8
91	25.0	12.4	37.4

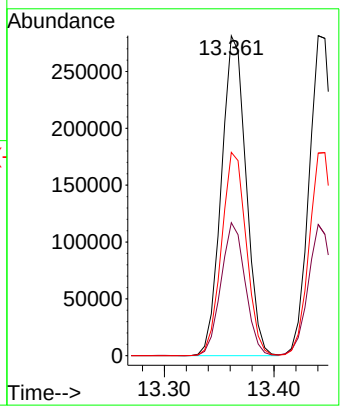




#87
1,3-Dichlorobenzene
Concen: 52.043 ug/l
RT: 13.361 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:146 Resp: 43955

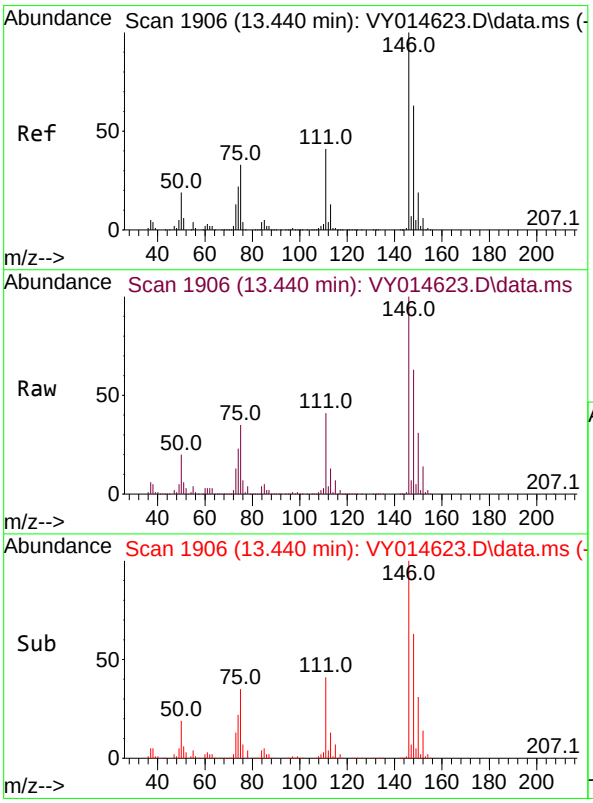
Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.4	58.2
148	63.6	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

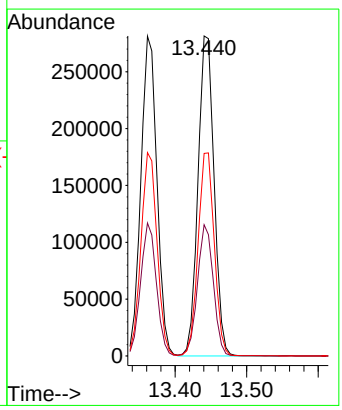
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

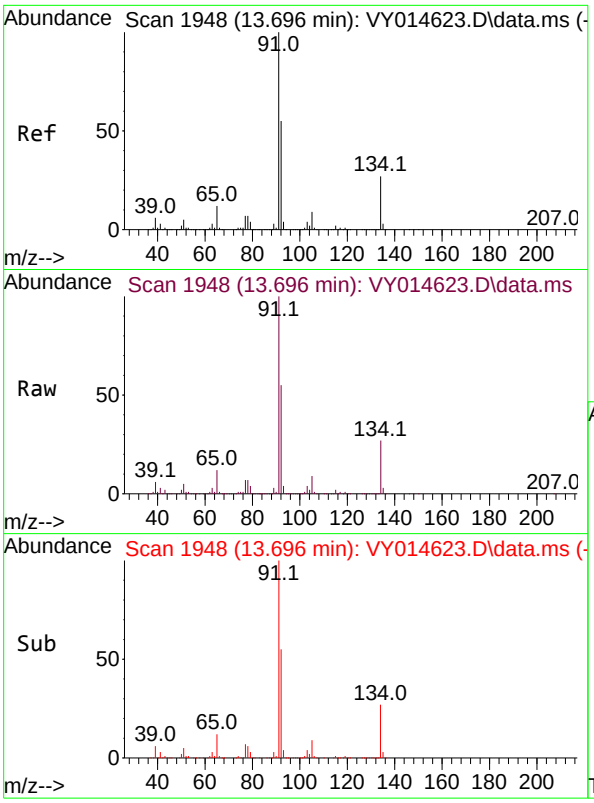


#88
1,4-Dichlorobenzene
Concen: 51.968 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:146 Resp: 439836

Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.9	56.7
148	63.9	32.1	96.5

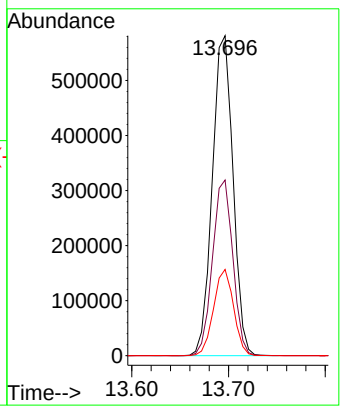




#89
n-Butylbenzene
Concen: 52.549 ug/l
RT: 13.696 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 91 Resp: 86241

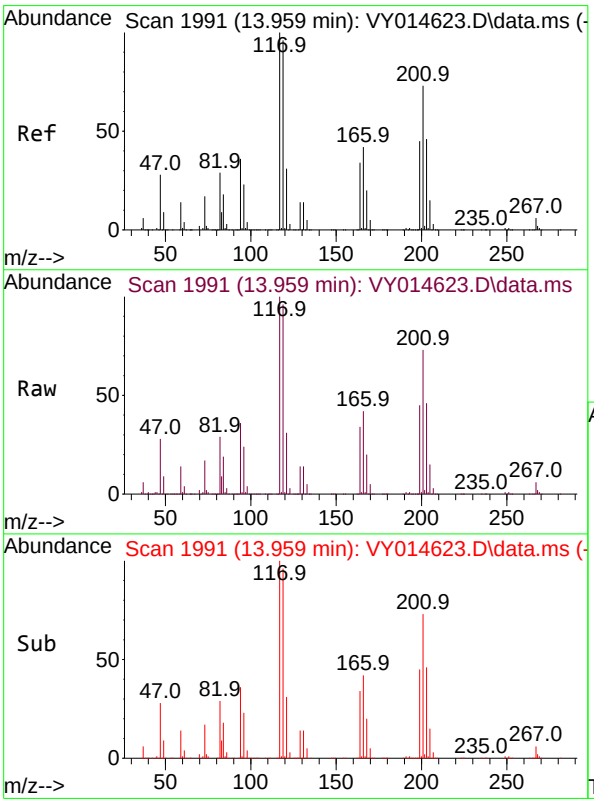
Ion	Ratio	Lower	Upper
91	100		
92	54.1	25.4	76.0
134	26.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

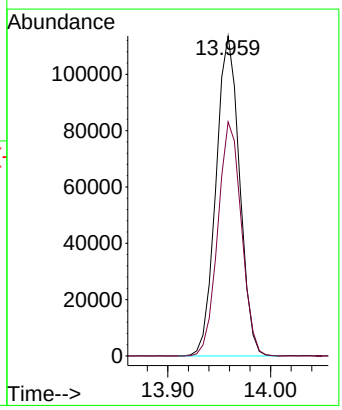
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

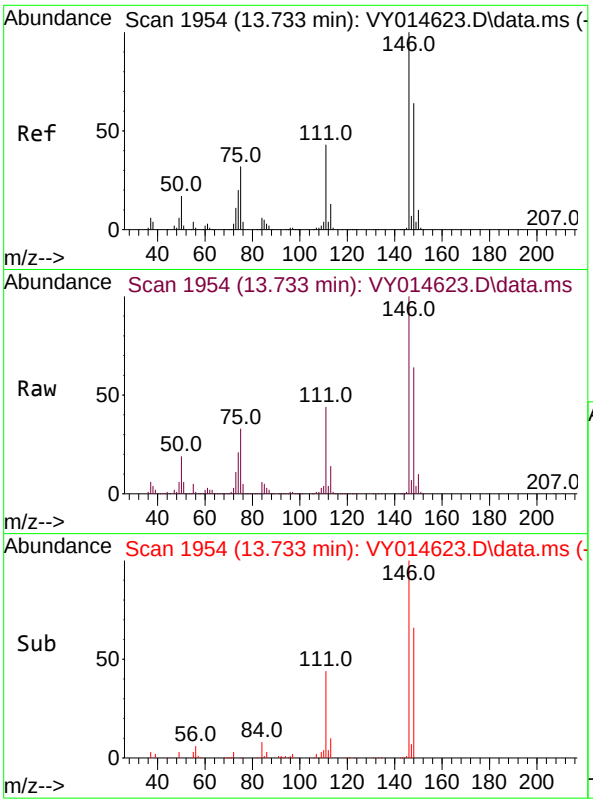


#90
Hexachloroethane
Concen: 52.081 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:117 Resp: 180452

Ion	Ratio	Lower	Upper
117	100		
201	73.2	41.6	124.8

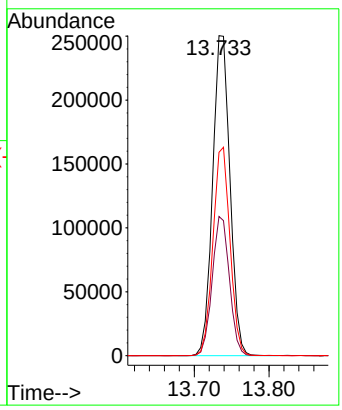




#91
1,2-Dichlorobenzene
Concen: 52.250 ug/l
RT: 13.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:146 Resp: 40431

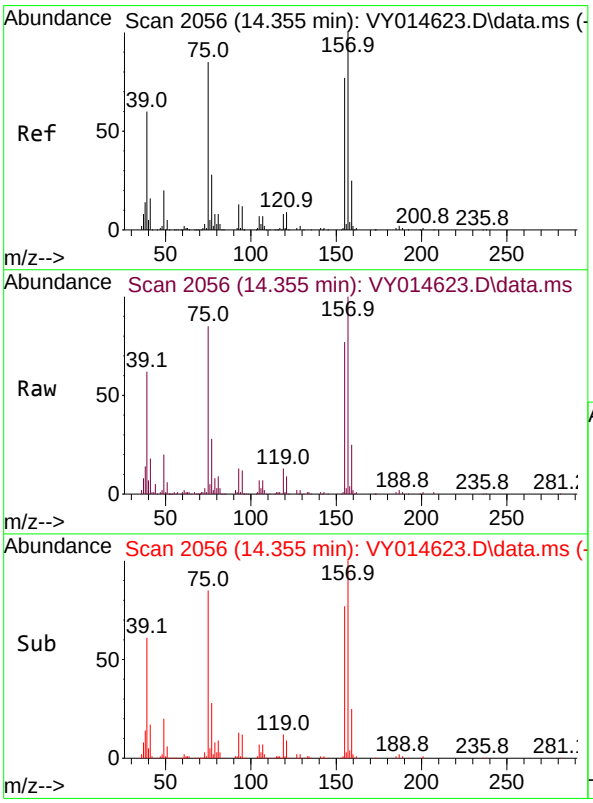
Ion	Ratio	Lower	Upper
146	100		
111	43.0	19.7	59.0
148	64.1	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

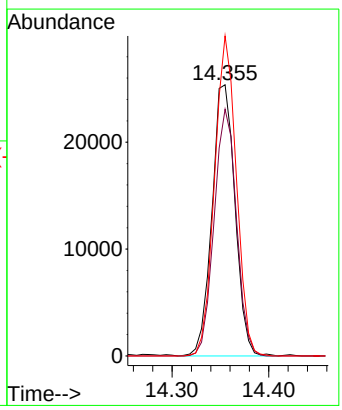
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

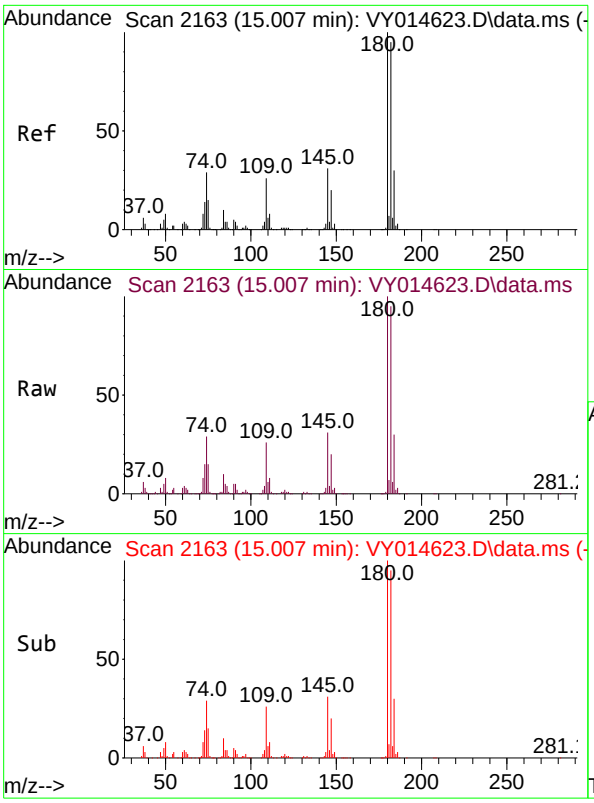


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.671 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion: 75 Resp: 42011

Ion	Ratio	Lower	Upper
75	100		
155	87.9	41.5	124.6
157	111.5	51.8	155.5

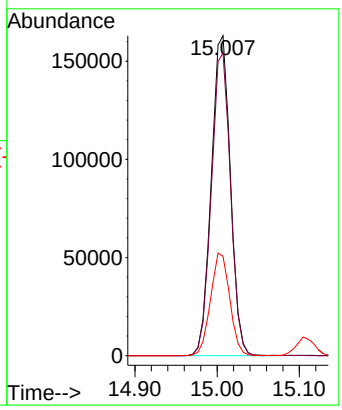




#93
1,2,4-Trichlorobenzene
Concen: 53.557 ug/l
RT: 15.007 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:180 Resp: 26307

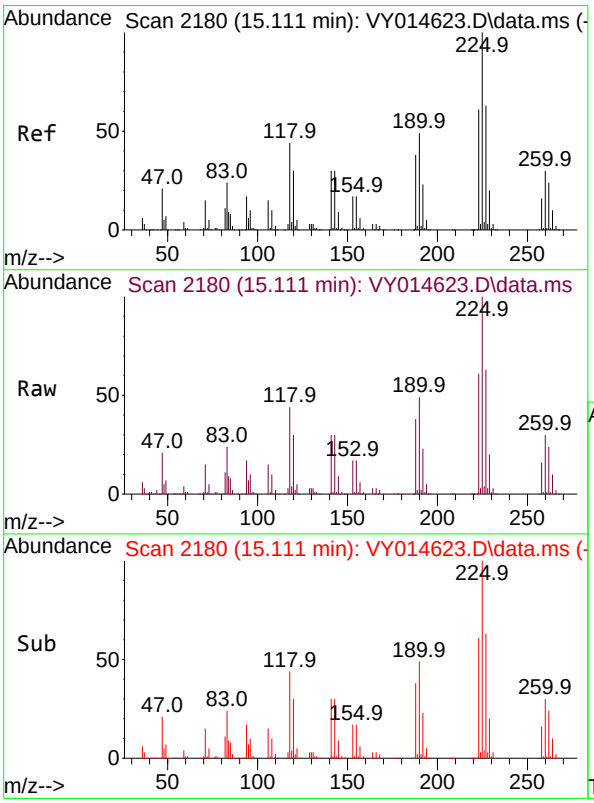
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.0	141.2
145	32.2	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

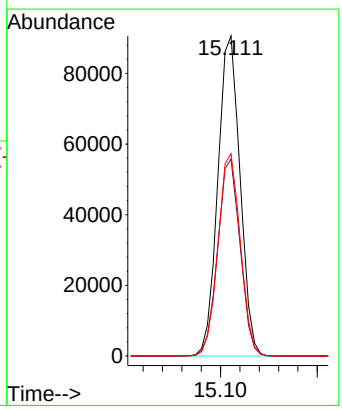
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

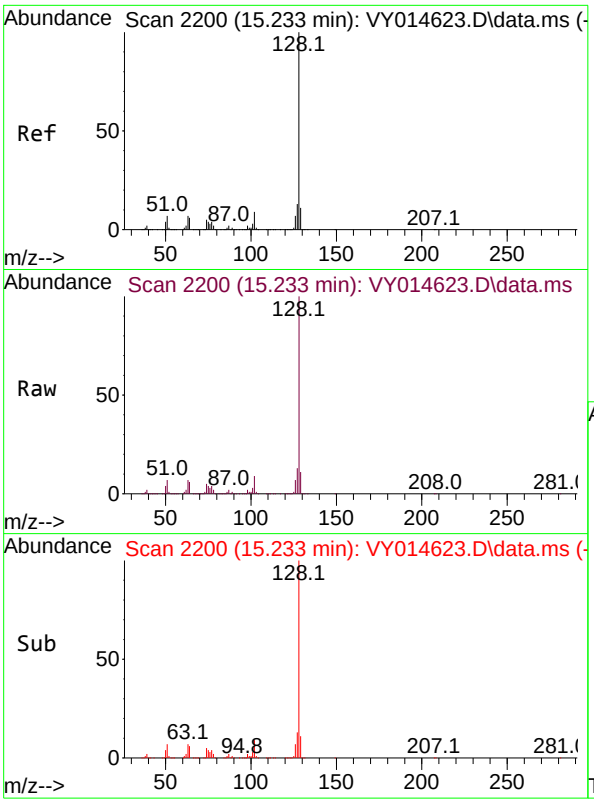


#94
Hexachlorobutadiene
Concen: 53.421 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:225 Resp: 144204

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.9	95.9
227	63.6	33.0	98.9

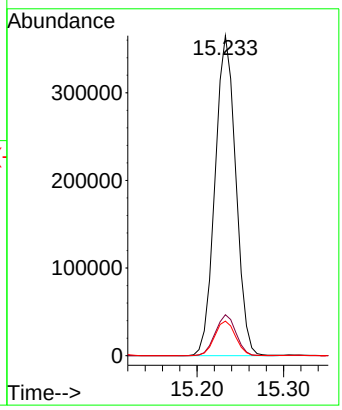




#95
Naphthalene
Concen: 53.132 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:128 Resp: 60804

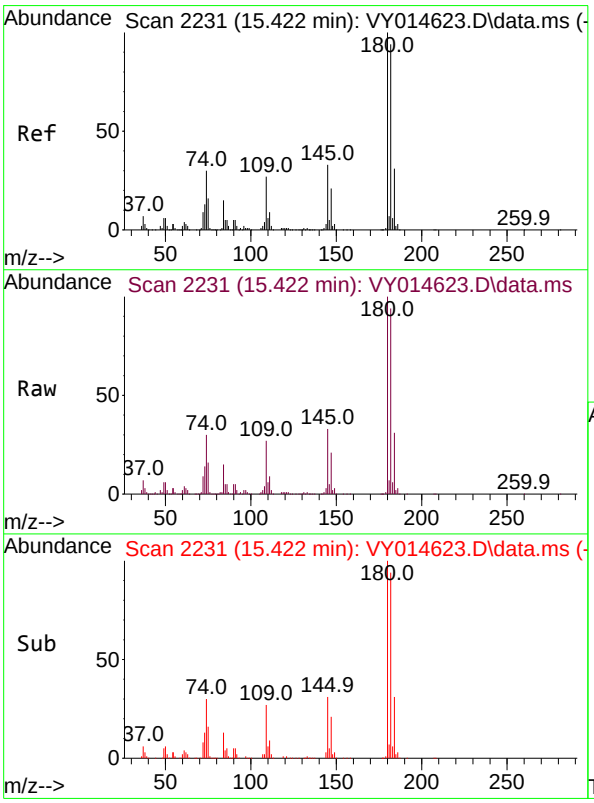
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

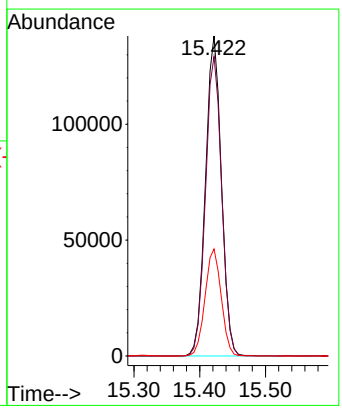
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 53.172 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014623.D
Acq: 13 Jul 2023 10:19

Tgt Ion:180 Resp: 232131

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.3	141.8
145	33.9	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014624.D
Acq On : 13 Jul 2023 10:42
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.783	168	329817	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.685	114	546640	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.489	117	479710	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	229317	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.136	65	374819	99.729	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 199.460%#				
35) Dibromofluoromethane	7.716	113	346449	99.561	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 199.120%#				
50) Toluene-d8	10.179	98	1252312	97.614	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 195.220%#				
62) 4-Bromofluorobenzene	12.477	95	478847	97.342	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 194.680%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.900	85	265419	98.776	ug/l		99
3) Chloromethane	2.107	50	299140	99.036	ug/l		99
4) Vinyl Chloride	2.241	62	340996	101.014	ug/l		97
5) Bromomethane	2.619	94	203224	91.096	ug/l		100
6) Chloroethane	2.777	64	214736	101.836	ug/l		96
7) Trichlorofluoromethane	3.107	101	592403	104.488	ug/l		99
8) Diethyl Ether	3.521	74	217297	103.010	ug/l		91
9) 1,1,2-Trichlorotrifluo...	3.887	101	364275	104.826	ug/l		94
10) Methyl Iodide	4.076	142	395612	104.672	ug/l		95
11) Tert butyl alcohol	4.948	59	352144	505.947	ug/l	#	86
12) 1,1-Dichloroethene	3.856	96	338851	104.331	ug/l		93
13) Acrolein	3.722	56	199290	507.324	ug/l		99
14) Allyl chloride	4.466	41	595397	103.246	ug/l		95
15) Acrylonitrile	5.155	53	619309	532.399	ug/l		98
16) Acetone	3.942	43	615937	517.165	ug/l		91
17) Carbon Disulfide	4.180	76	935990	100.660	ug/l		98
18) Methyl Acetate	4.466	43	487446	106.651	ug/l		94
19) Methyl tert-butyl Ether	5.210	73	1104741	104.712	ug/l		99
20) Methylene Chloride	4.704	84	387854	104.881	ug/l		94
21) trans-1,2-Dichloroethene	5.204	96	378006	102.557	ug/l		99
22) Diisopropyl ether	6.112	45	1221147	104.155	ug/l		91
23) Vinyl Acetate	6.051	43	3699195	527.238	ug/l		95
24) 1,1-Dichloroethane	6.009	63	695136	103.620	ug/l		97
25) 2-Butanone	6.978	43	906808	520.434	ug/l		97
26) 2,2-Dichloropropane	6.972	77	645535	100.967	ug/l		99
27) cis-1,2-Dichloroethene	6.978	96	441746	102.965	ug/l		97
28) Bromochloromethane	7.325	49	283822	98.235	ug/l		96
29) Tetrahydrofuran	7.338	42	569527	530.832	ug/l		94
30) Chloroform	7.502	83	711561	102.860	ug/l		97
31) Cyclohexane	7.777	56	603381	96.712	ug/l		95
32) 1,1,1-Trichloroethane	7.697	97	652000	104.720	ug/l		99
36) 1,1-Dichloropropene	7.911	75	543162	104.376	ug/l		100
37) Ethyl Acetate	7.069	43	380768	106.275	ug/l	#	95
38) Carbon Tetrachloride	7.892	117	579149	105.281	ug/l		99
39) Methylcyclohexane	9.179	83	696351	102.711	ug/l		97
40) Benzene	8.154	78	1527187	103.187	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014624.D
Acq On : 13 Jul 2023 10:42
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 02:00:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.301	41	166827m	88.050	ug/l		
42) 1,2-Dichloroethane	8.234	62	492092	104.995	ug/l		95
43) Isopropyl Acetate	8.270	43	721819	105.760	ug/l		97
44) Trichloroethene	8.935	130	425420	102.735	ug/l		97
45) 1,2-Dichloropropane	9.209	63	399722	103.430	ug/l		98
46) Dibromomethane	9.301	93	242796	103.560	ug/l		95
47) Bromodichloromethane	9.490	83	577600	104.529	ug/l		98
48) Methyl methacrylate	9.288	41	329556	107.310	ug/l		94
49) 1,4-Dioxane	9.295	88	81932	2143.184	ug/l	#	59
51) 4-Methyl-2-Pentanone	10.069	43	1900034	530.224	ug/l		95
52) Toluene	10.239	92	978585	103.329	ug/l		93
53) t-1,3-Dichloropropene	10.459	75	630515	104.316	ug/l		99
54) cis-1,3-Dichloropropene	9.922	75	677367	103.054	ug/l		97
55) 1,1,2-Trichloroethane	10.642	97	340799	104.354	ug/l		97
56) Ethyl methacrylate	10.508	69	534113	107.115	ug/l		92
57) 1,3-Dichloropropane	10.788	76	583911	103.662	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.776	63	1187244	511.005	ug/l		95
59) 2-Hexanone	10.831	43	1389268	531.625	ug/l		93
60) Dibromochloromethane	10.983	129	417987	104.390	ug/l		100
61) 1,2-Dibromoethane	11.087	107	339016	104.058	ug/l		99
64) Tetrachloroethene	10.715	164	380719	98.679	ug/l		97
65) Chlorobenzene	11.514	112	1055986	103.300	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.587	131	396858	102.964	ug/l		98
67) Ethyl Benzene	11.587	91	1893502	102.591	ug/l		99
68) m/p-Xylenes	11.697	106	1439492	204.316	ug/l		98
69) o-Xylene	12.026	106	705032	102.740	ug/l		99
70) Styrene	12.044	104	1188097	102.724	ug/l		99
71) Bromoform	12.203	173	273786	104.796	ug/l	#	100
73) Isopropylbenzene	12.324	105	1868120	104.041	ug/l		99
74) N-amyl acetate	12.142	43	658969	109.578	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.581	83	435530	106.365	ug/l		100
76) 1,2,3-Trichloropropane	12.629	75	305504m	104.103	ug/l		
77) Bromobenzene	12.605	156	429502	104.791	ug/l		92
78) n-propylbenzene	12.666	91	2263757	104.626	ug/l		100
79) 2-Chlorotoluene	12.751	91	1303863	104.624	ug/l		98
80) 1,3,5-Trimethylbenzene	12.812	105	1553124	103.572	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.373	75	163124	109.052	ug/l		96
82) 4-Chlorotoluene	12.849	91	1336444	104.125	ug/l		98
83) tert-Butylbenzene	13.074	119	1389592	104.465	ug/l		98
84) 1,2,4-Trimethylbenzene	13.117	105	1521782	103.407	ug/l		99
85) sec-Butylbenzene	13.251	105	2024890	103.770	ug/l		100
86) p-Isopropyltoluene	13.367	119	1653501	103.785	ug/l		100
87) 1,3-Dichlorobenzene	13.361	146	823622	103.249	ug/l		98
88) 1,4-Dichlorobenzene	13.440	146	827368	103.503	ug/l		98
89) n-Butylbenzene	13.690	91	1626778	104.952	ug/l		96
90) Hexachloroethane	13.958	117	343148	104.861	ug/l		89
91) 1,2-Dichlorobenzene	13.733	146	757927	103.704	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.355	75	84461	107.860	ug/l		95
93) 1,2,4-Trichlorobenzene	15.001	180	499582	107.682	ug/l		97
94) Hexachlorobutadiene	15.111	225	269631	105.758	ug/l		98
95) Naphthalene	15.232	128	1193673	110.436	ug/l		99
96) 1,2,3-Trichlorobenzene	15.421	180	447366	108.499	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014624.D
Acq On : 13 Jul 2023 10:42
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

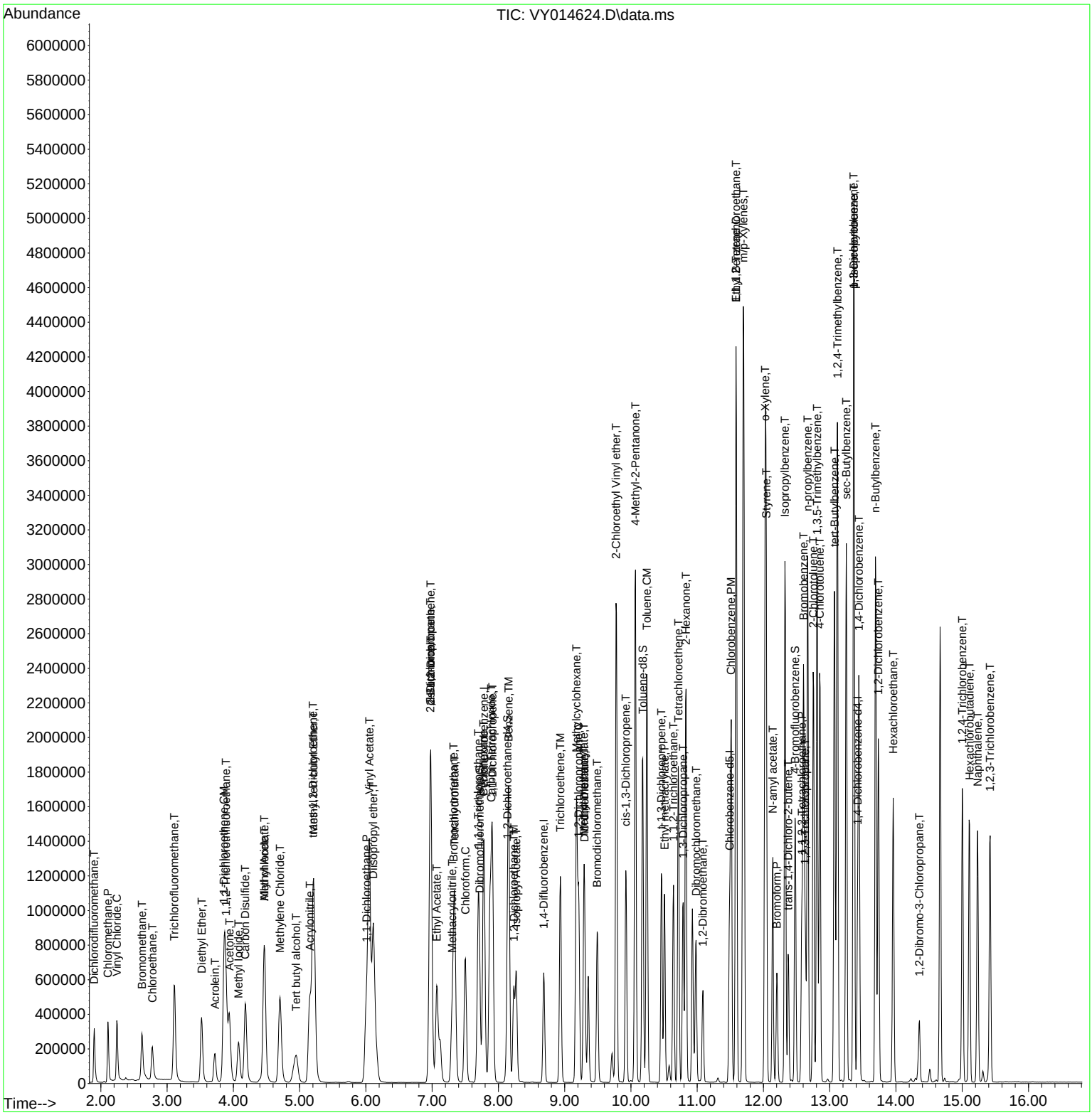
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Data File : VY014624.D
Acq On : 13 Jul 2023 10:42
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

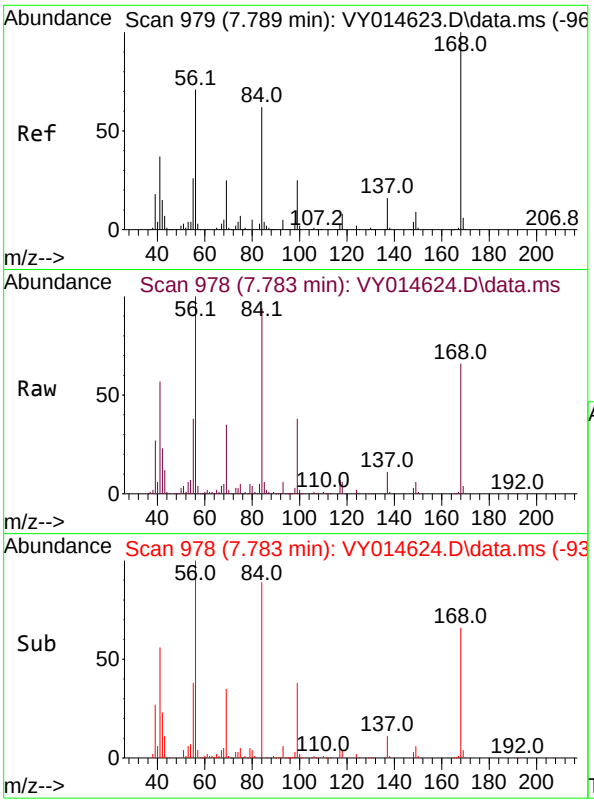
Quant Time: Jul 14 02:00:32 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

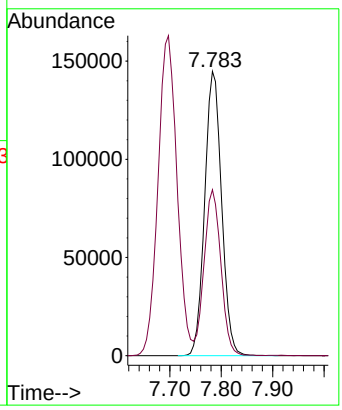




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:168 Resp: 32981

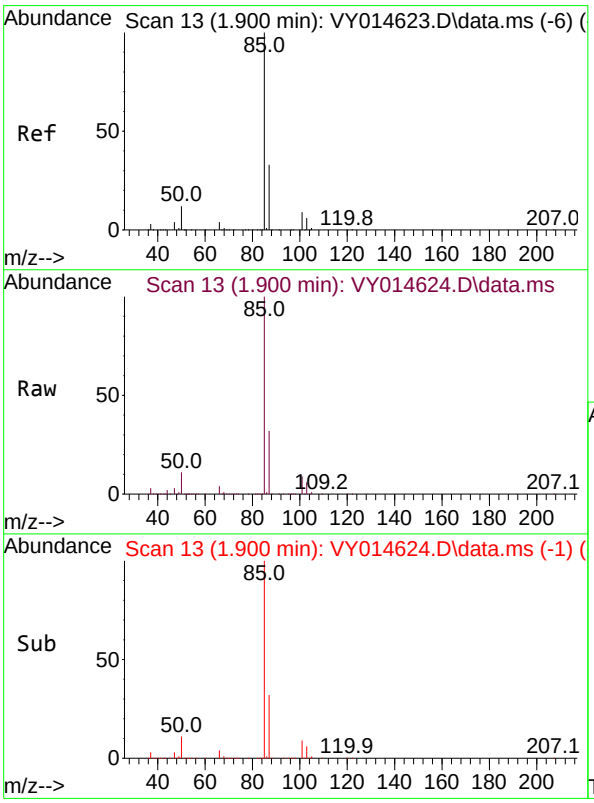
Ion	Ratio	Lower	Upper
168	100		
99	58.2	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

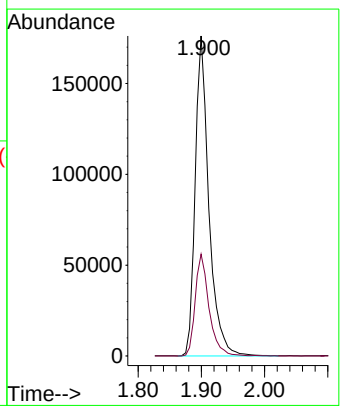
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

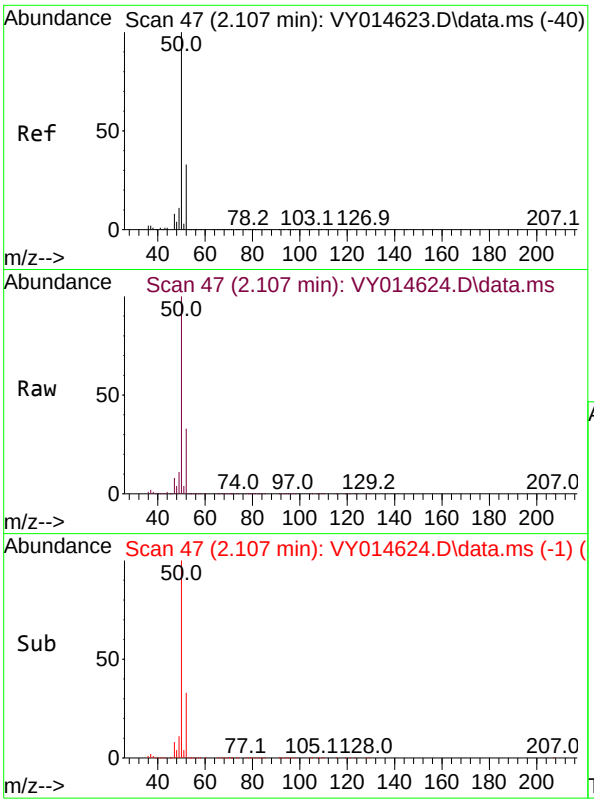


#2
Dichlorodifluoromethane
Concen: 98.776 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 85 Resp: 265419

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.6	46.8

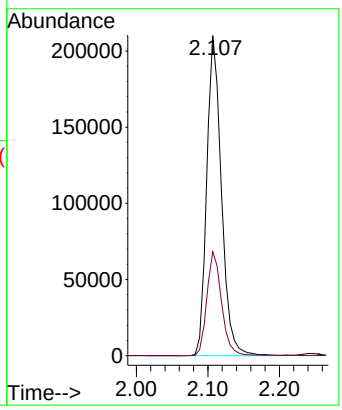




#3
Chloromethane
Concen: 99.036 ug/l
RT: 2.107 min Scan# 4
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 50 Resp: 29914

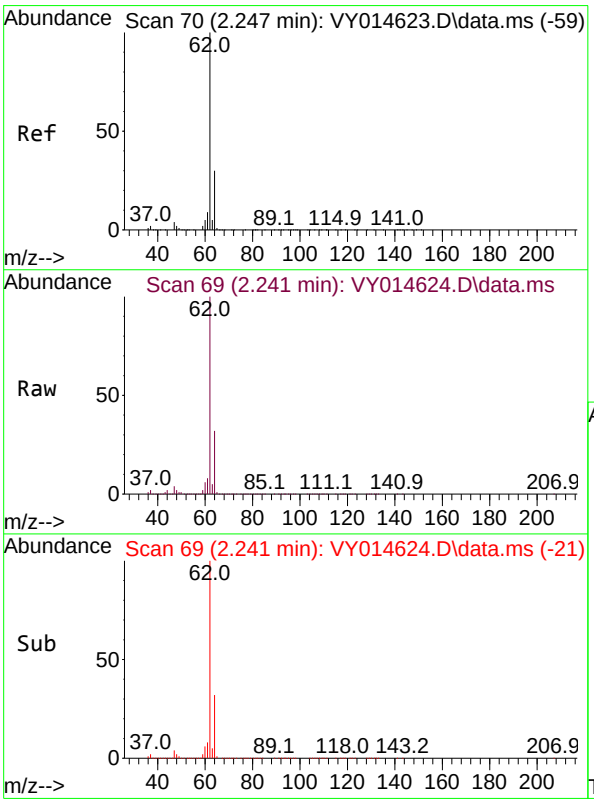
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

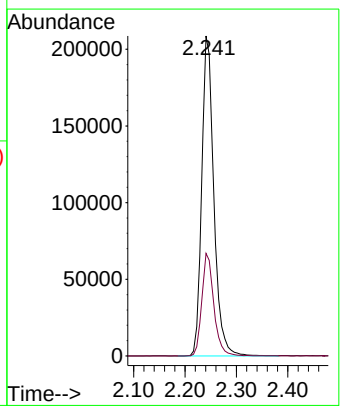
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

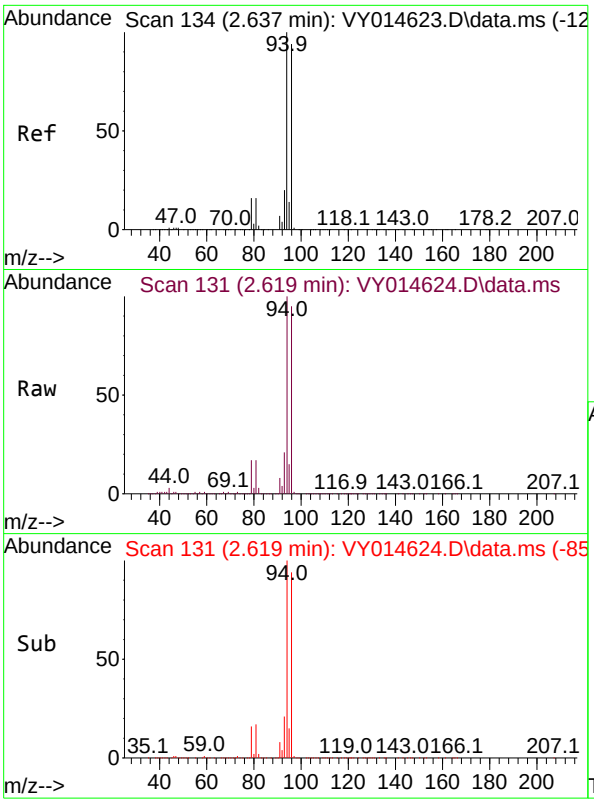


#4
Vinyl Chloride
Concen: 101.014 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 62 Resp: 340996

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.3	36.5

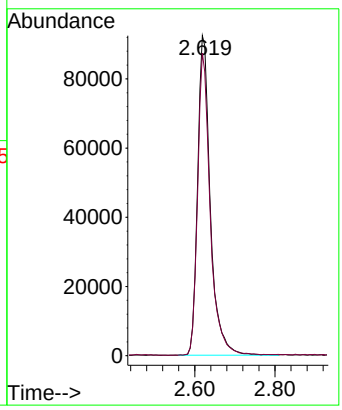




#5
Bromomethane
Concen: 91.096 ug/l
RT: 2.619 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 94 Resp: 20322

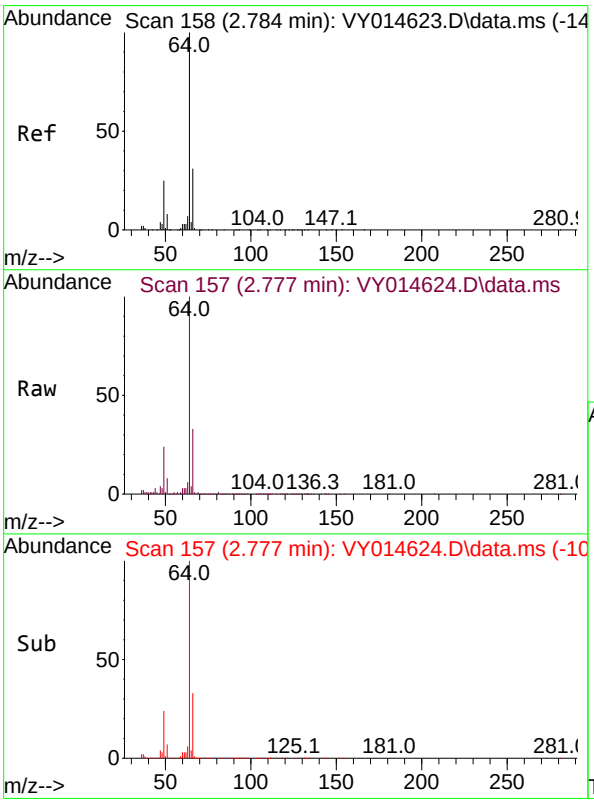
Ion	Ratio	Lower	Upper
94	100		
96	94.5	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

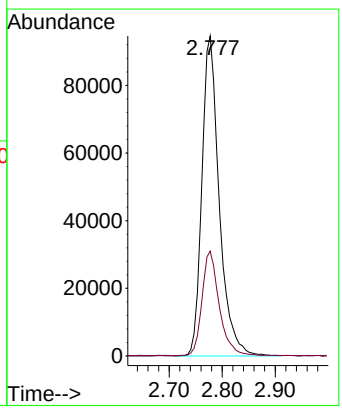
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

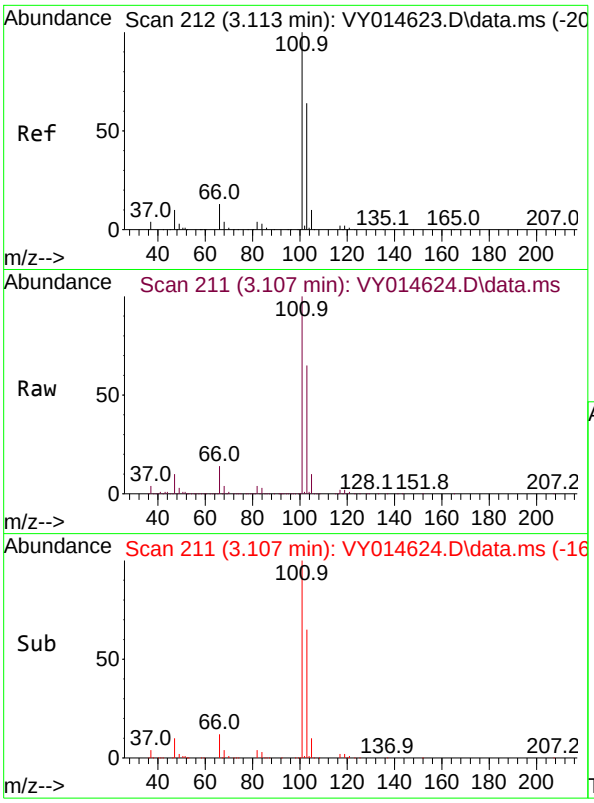


#6
Chloroethane
Concen: 101.836 ug/l
RT: 2.777 min Scan# 157
Delta R.T. -0.007 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 64 Resp: 214736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	24.4	36.6





#7
Trichlorofluoromethane
Concen: 104.488 ug/l
RT: 3.107 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

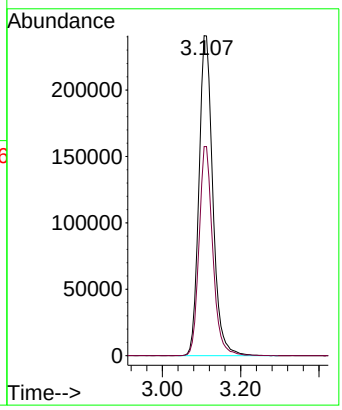
Tgt Ion:101 Resp: 59240

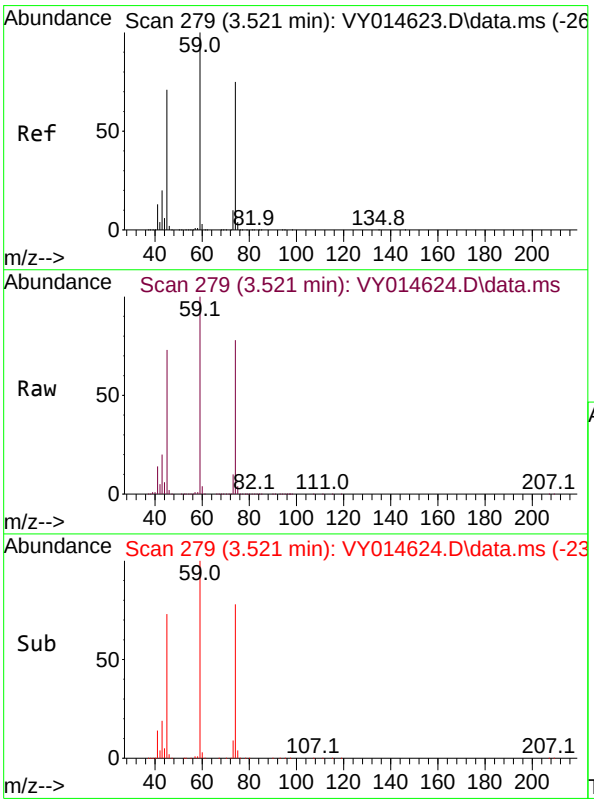
Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.4	77.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

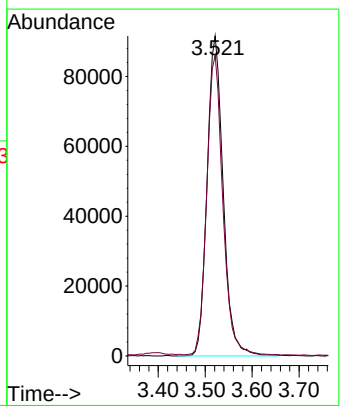


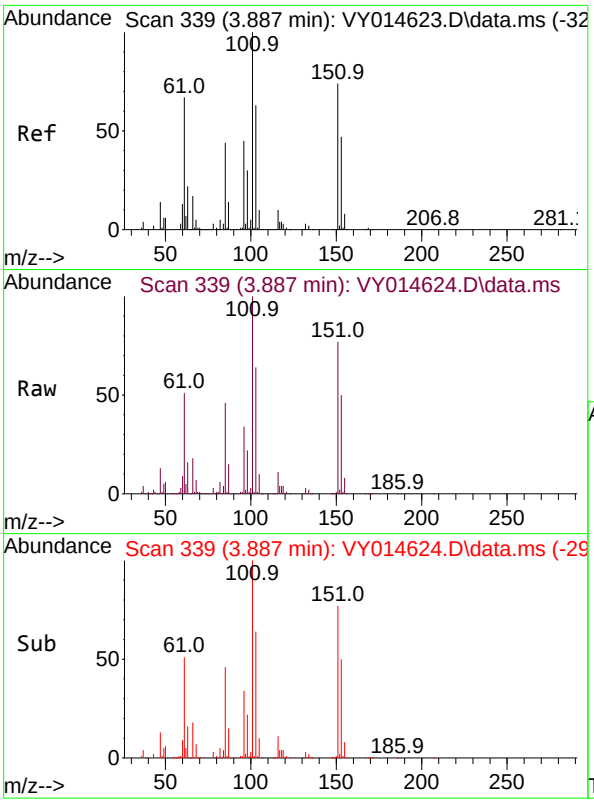


#8
Diethyl Ether
Concen: 103.010 ug/l
RT: 3.521 min Scan# 279
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 74 Resp: 217297

Ion	Ratio	Lower	Upper
74	100		
45	94.0	51.5	154.5

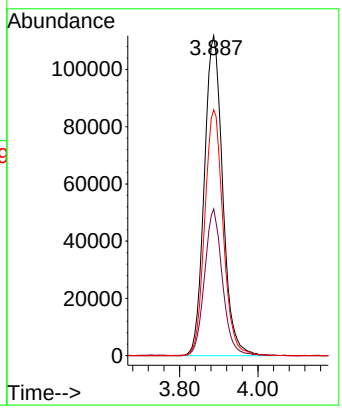




#9
1,1,2-Trichlorotrifluoroethane
Concen: 104.826 ug/l
RT: 3.887 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

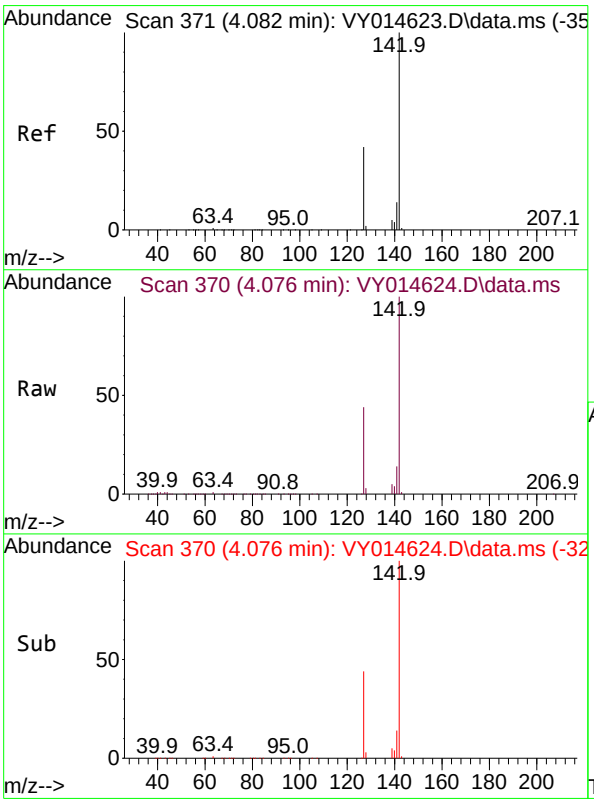
Tgt Ion:101 Resp: 36427

Ion	Ratio	Lower	Upper
101	100		
85	44.3	36.6	55.0
151	76.9	67.0	100.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

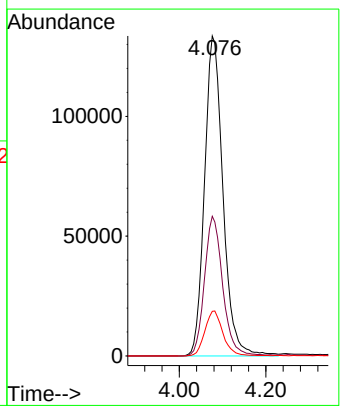
Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

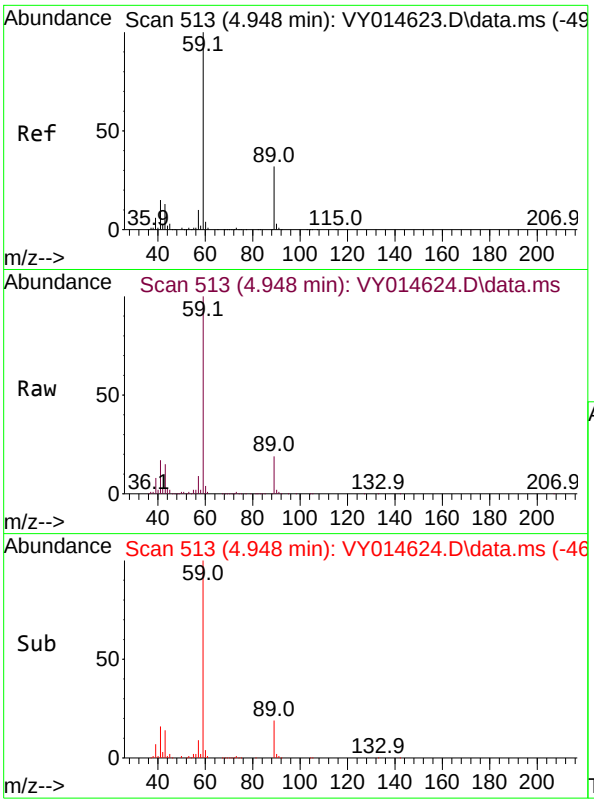


#10
Methyl Iodide
Concen: 104.672 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:142 Resp: 395612

Ion	Ratio	Lower	Upper
142	100		
127	43.1	37.6	56.4
141	13.9	11.8	17.8

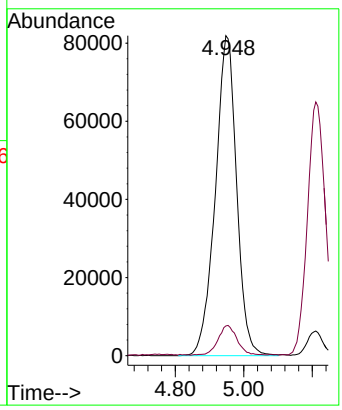




#11
Tert butyl alcohol
Concen: 505.947 ug/l
RT: 4.948 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 59 Resp: 35214

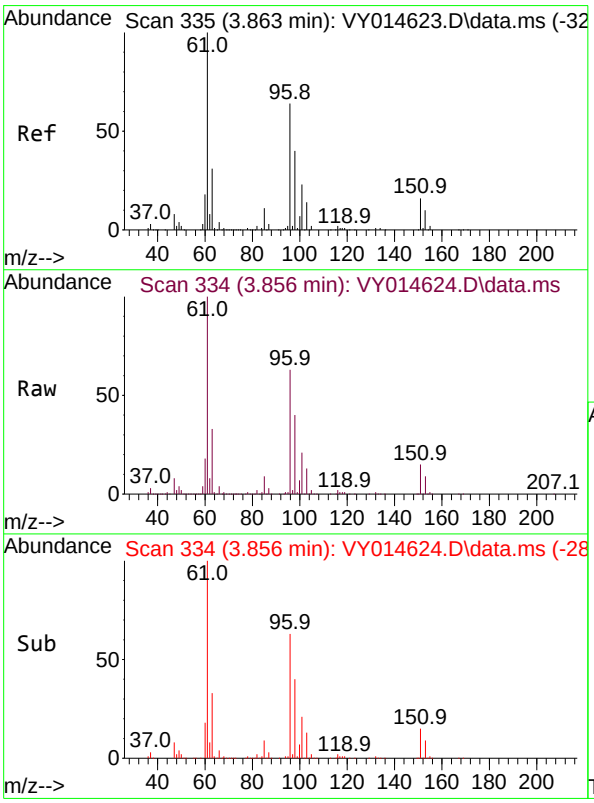
Ion	Ratio	Lower	Upper
59	100		
57	8.4	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

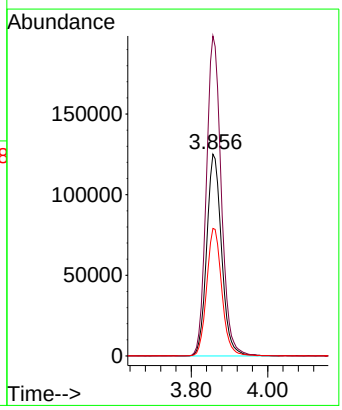
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

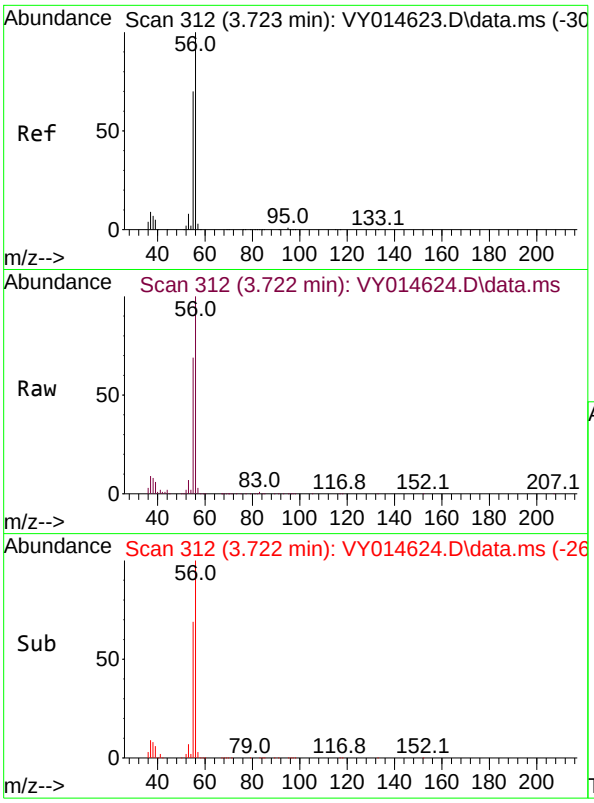


#12
1,1-Dichloroethene
Concen: 104.331 ug/l
RT: 3.856 min Scan# 334
Delta R.T. -0.007 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 96 Resp: 338851

Ion	Ratio	Lower	Upper
96	100		
61	158.7	136.4	204.6
98	63.2	49.4	74.2

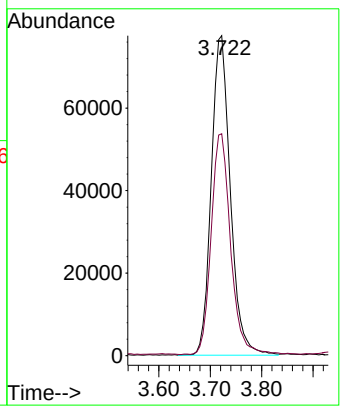




#13
Acrolein
Concen: 507.324 ug/l
RT: 3.722 min Scan# 3
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 56 Resp: 19929

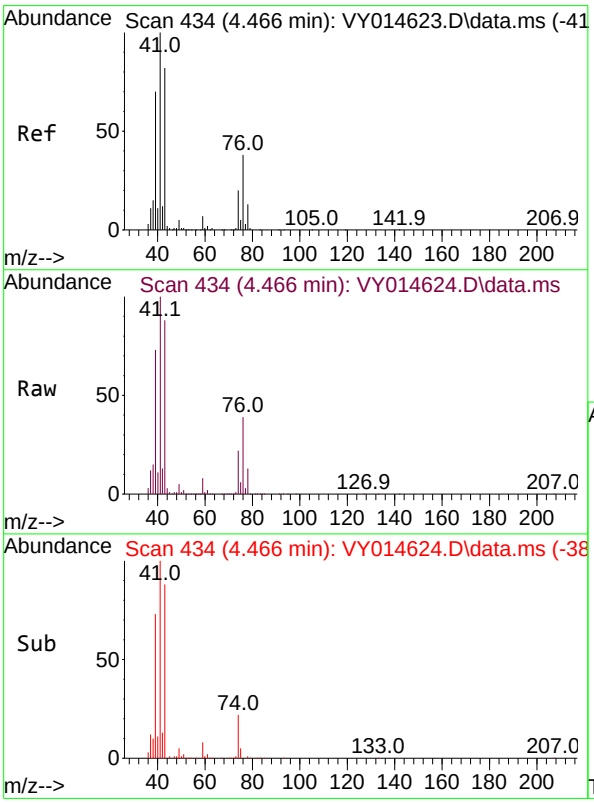
Ion	Ratio	Lower	Upper
56	100		
55	70.4	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

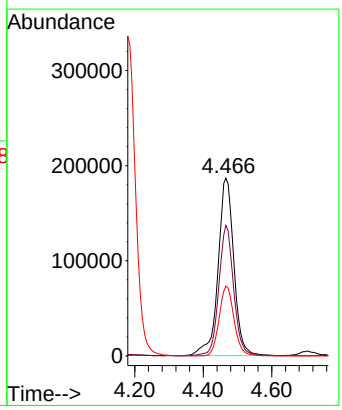
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

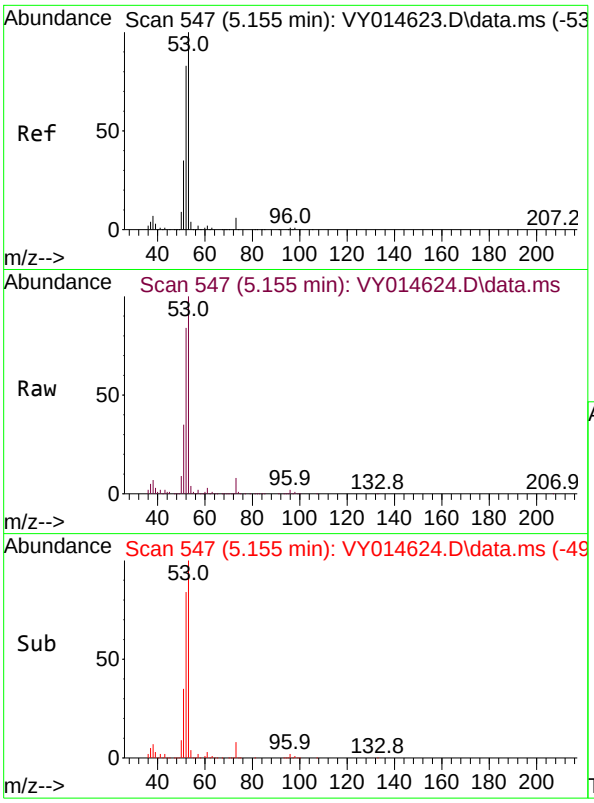


#14
Allyl chloride
Concen: 103.246 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 41 Resp: 595397

Ion	Ratio	Lower	Upper
41	100		
39	68.6	58.0	87.0
76	36.9	27.4	41.2

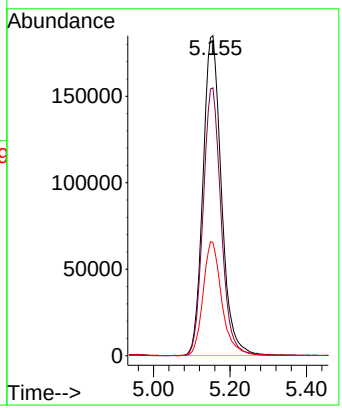




#15
Acrylonitrile
Concen: 532.399 ug/l
RT: 5.155 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 53 Resp: 619309

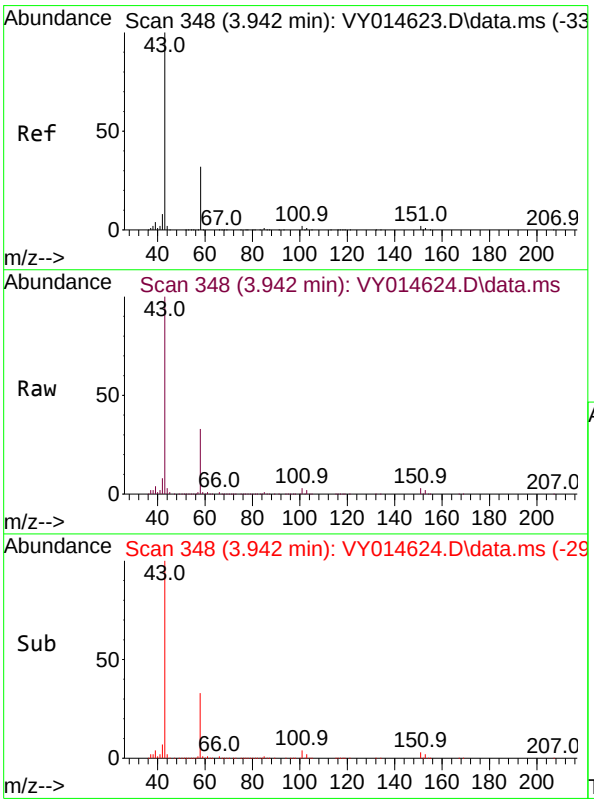
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.9	100.3
51	36.1	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

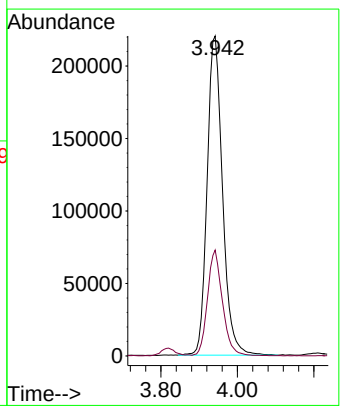
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

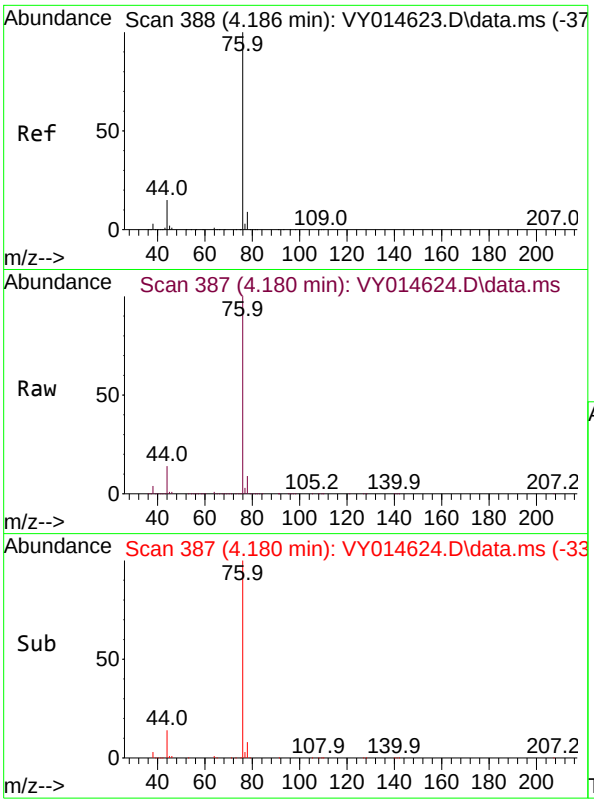


#16
Acetone
Concen: 517.165 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 43 Resp: 615937

Ion	Ratio	Lower	Upper
43	100		
58	33.1	22.7	34.1

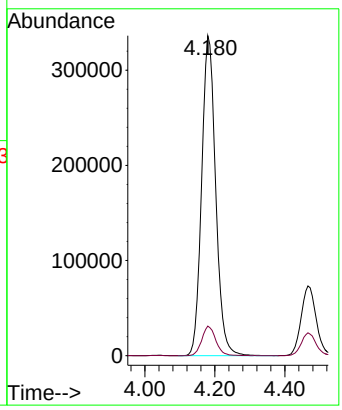




#17
Carbon Disulfide
Concen: 100.660 ug/l
RT: 4.180 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 76 Resp: 93599

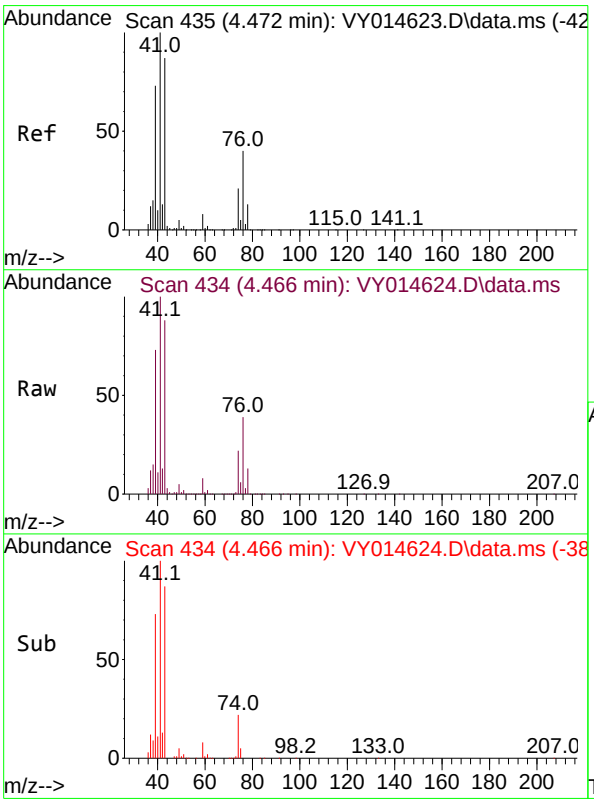
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

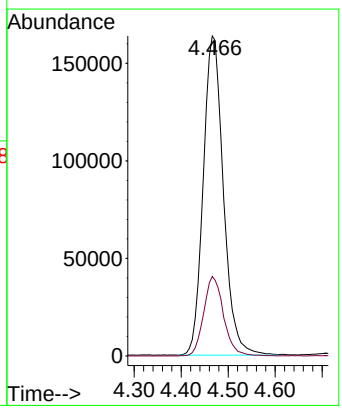
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

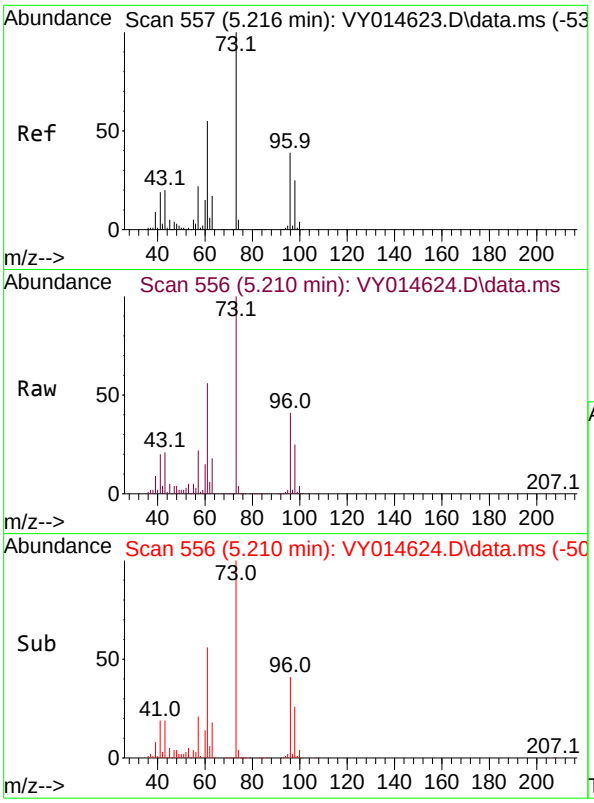


#18
Methyl Acetate
Concen: 106.651 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 43 Resp: 487446

Ion	Ratio	Lower	Upper
43	100		
74	24.5	17.4	26.0

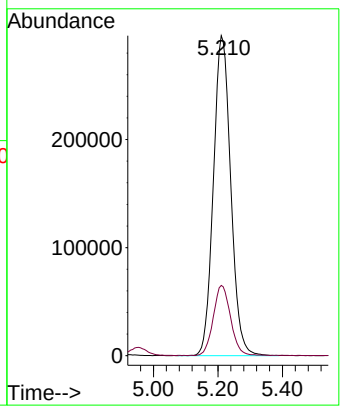




#19
Methyl tert-butyl Ether
Concen: 104.712 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 73 Resp: 110474

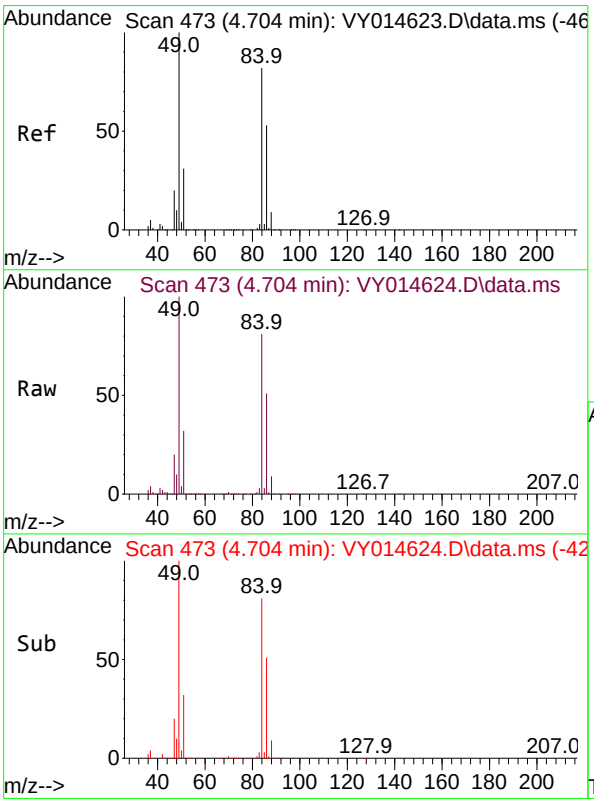
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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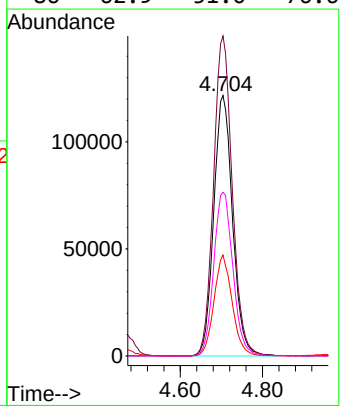
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

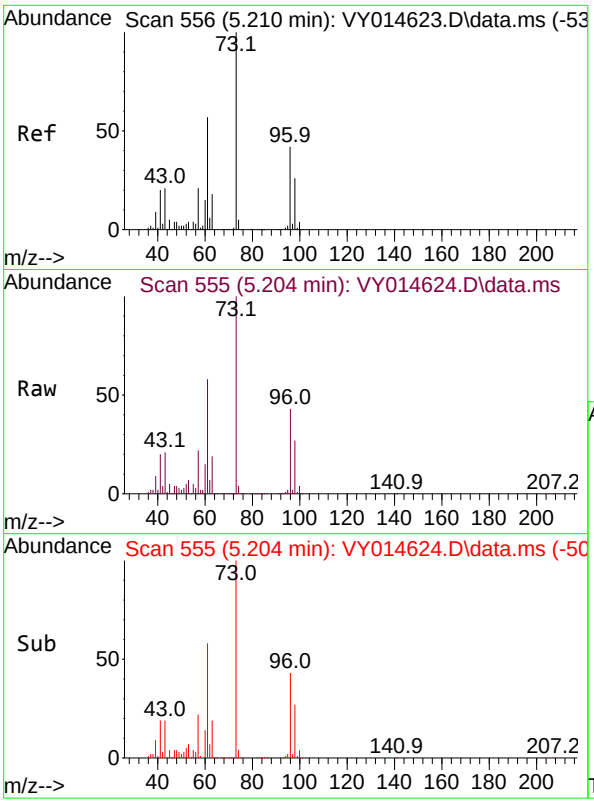


#20
Methylene Chloride
Concen: 104.881 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 84 Resp: 387854

Ion	Ratio	Lower	Upper
84	100		
49	122.9	106.9	160.3
51	38.7	33.2	49.8
86	62.9	51.0	76.6

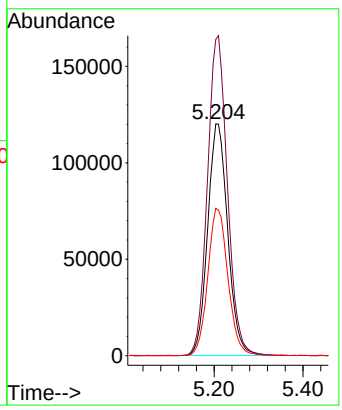




#21
trans-1,2-Dichloroethene
Concen: 102.557 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 96 Resp: 37800

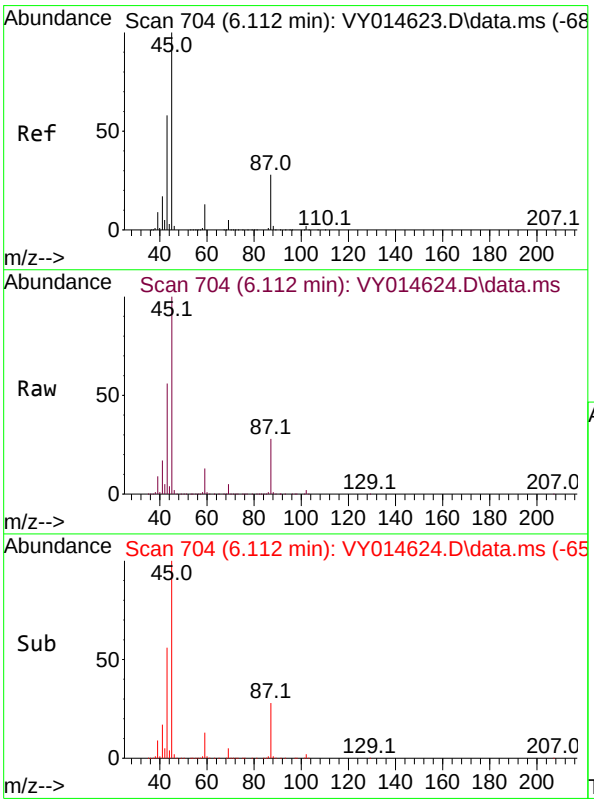
Ion	Ratio	Lower	Upper
96	100		
61	136.5	110.2	165.4
98	63.5	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

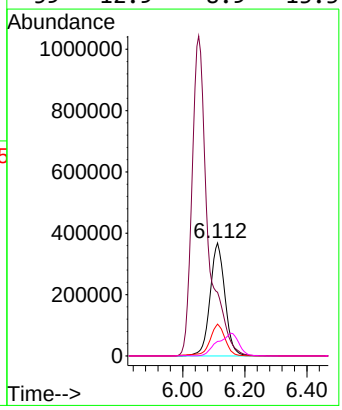
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

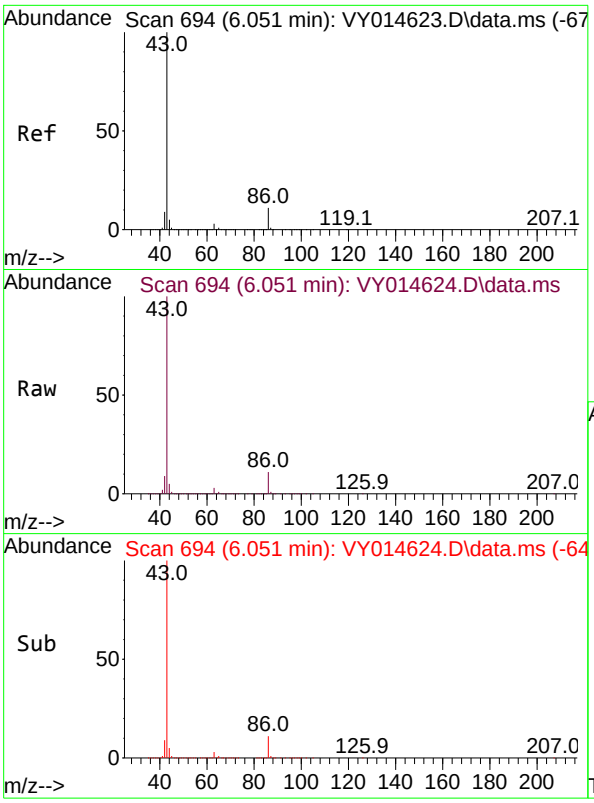


#22
Diisopropyl ether
Concen: 104.155 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 45 Resp: 1221147

Ion	Ratio	Lower	Upper
45	100		
43	56.2	52.2	78.4
87	28.3	21.0	31.6
59	12.9	8.9	13.3

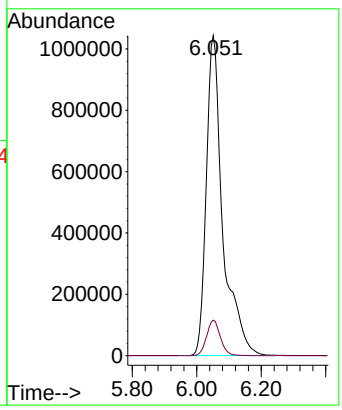




#23
Vinyl Acetate
Concen: 527.238 ug/l
RT: 6.051 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 43 Resp: 369919

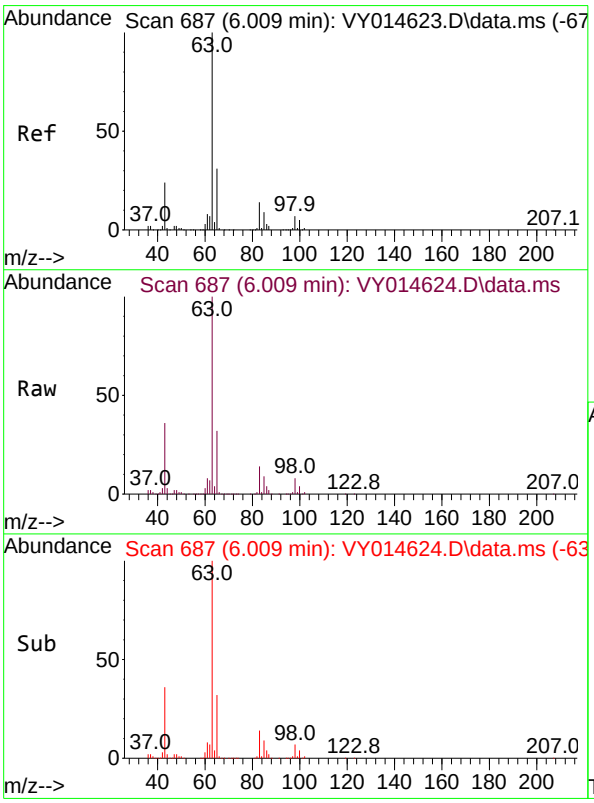
Ion	Ratio	Lower	Upper
43	100		
86	11.1	7.5	11.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

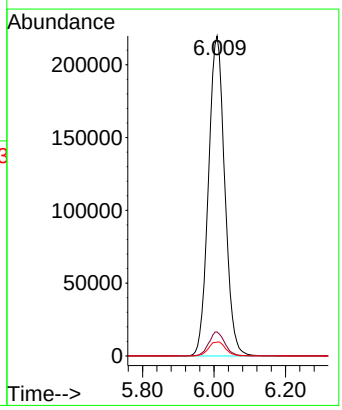
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

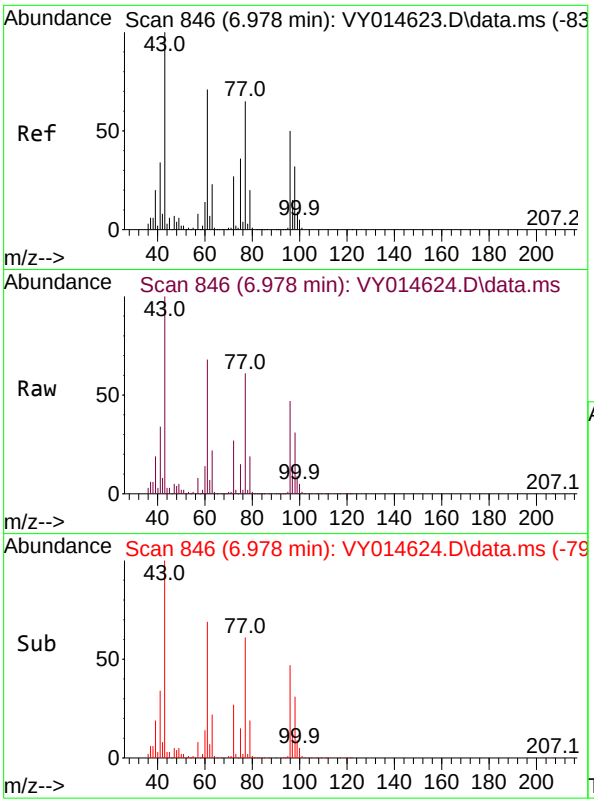


#24
1,1-Dichloroethane
Concen: 103.620 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 63 Resp: 695136

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.1	9.4
100	4.4	1.8	5.5





#25
2-Butanone
Concen: 520.434 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

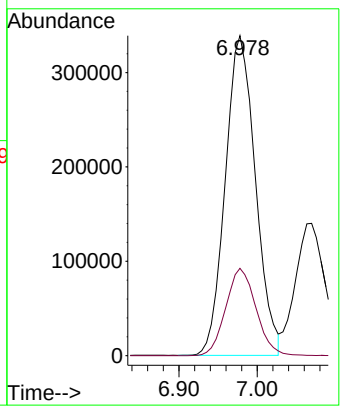
Tgt Ion: 43 Resp: 90680

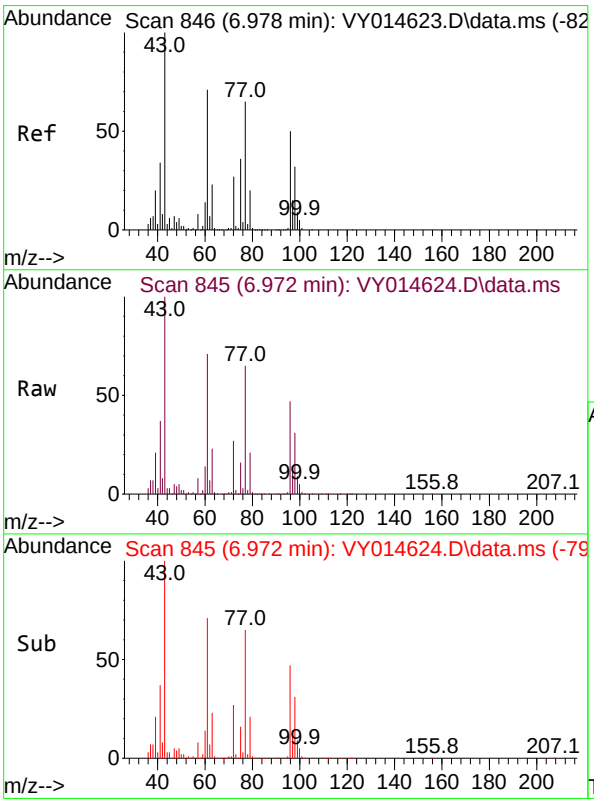
Ion	Ratio	Lower	Upper
43	100		
72	27.3	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

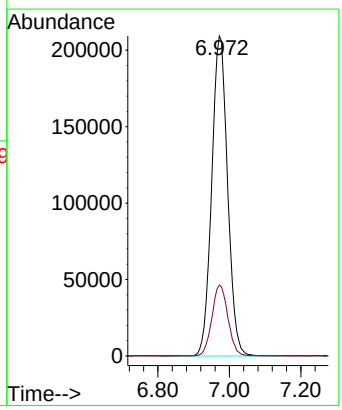


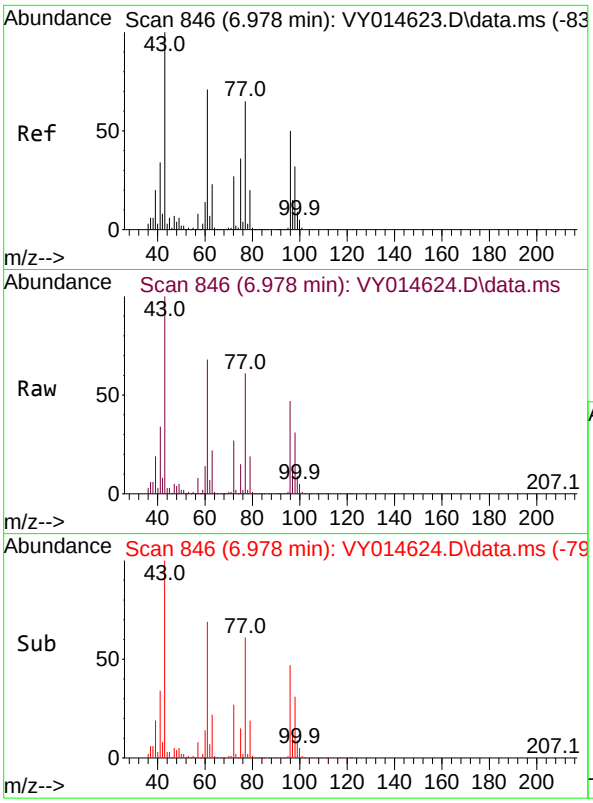


#26
2,2-Dichloropropane
Concen: 100.967 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 77 Resp: 645535

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 102.965 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

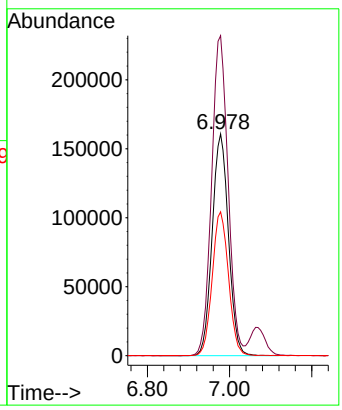
Tgt Ion: 96 Resp: 44174

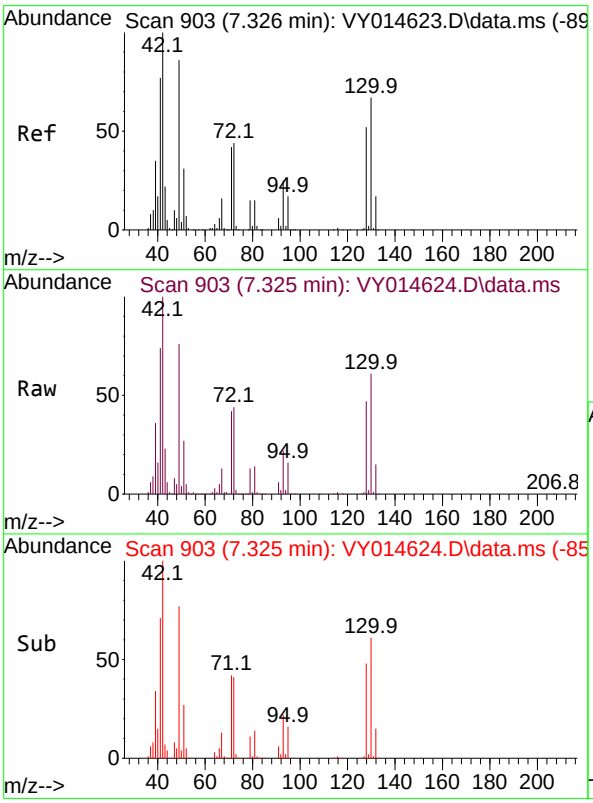
Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	301.4
98	64.8	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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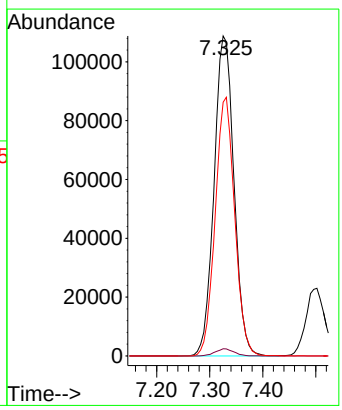


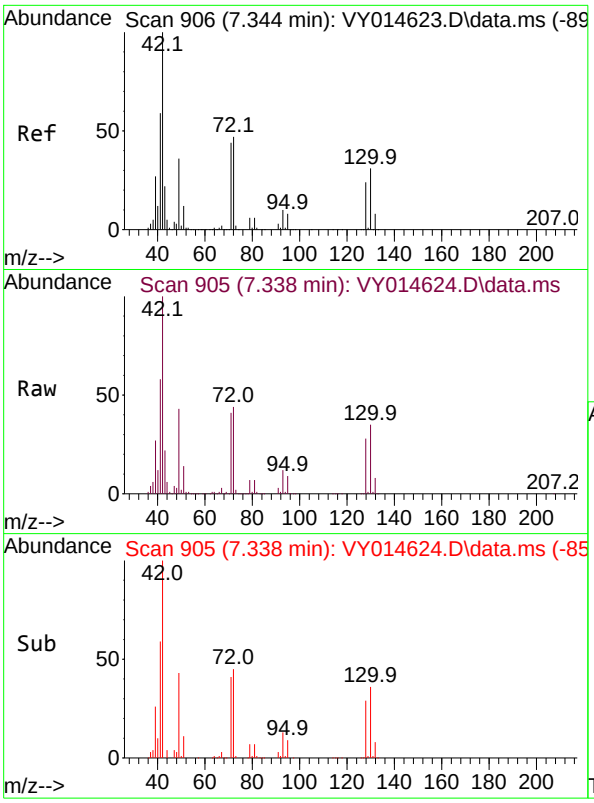


#28
Bromochloromethane
Concen: 98.235 ug/l
RT: 7.325 min Scan# 903
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 49 Resp: 283822

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	79.3	60.7	91.1

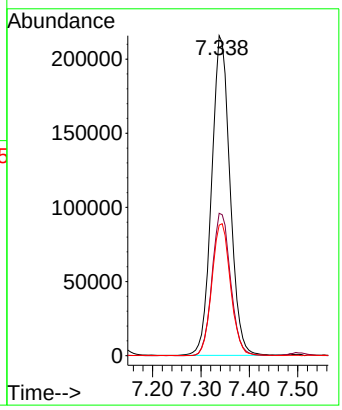




#29
Tetrahydrofuran
Concen: 530.832 ug/l
RT: 7.338 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 42 Resp: 56952

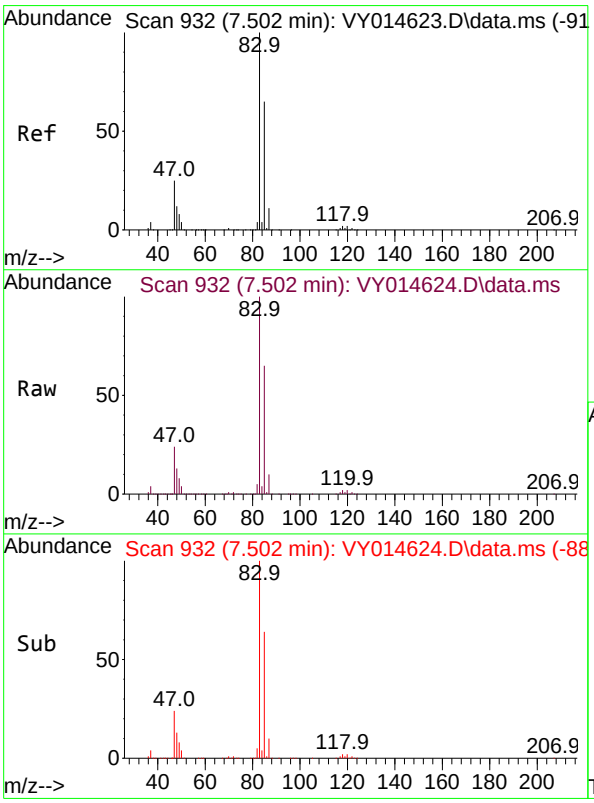
Ion	Ratio	Lower	Upper
42	100		
72	44.9	32.8	49.2
71	41.8	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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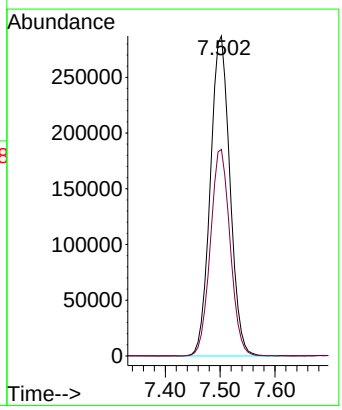
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

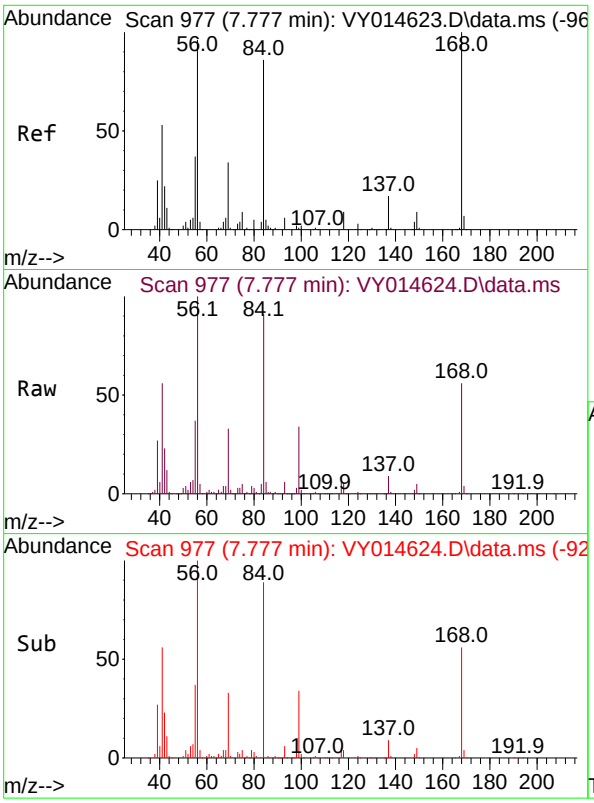


#30
Chloroform
Concen: 102.860 ug/l
RT: 7.502 min Scan# 932
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 83 Resp: 711561

Ion	Ratio	Lower	Upper
83	100		
85	64.5	49.7	74.5





#31
Cyclohexane
Concen: 96.712 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

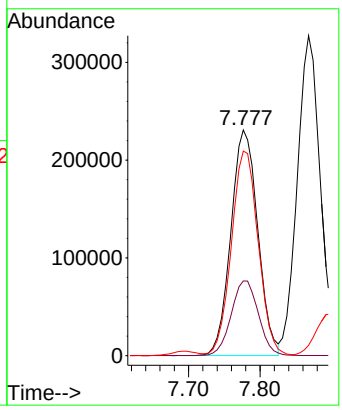
Tgt Ion: 56 Resp: 60338

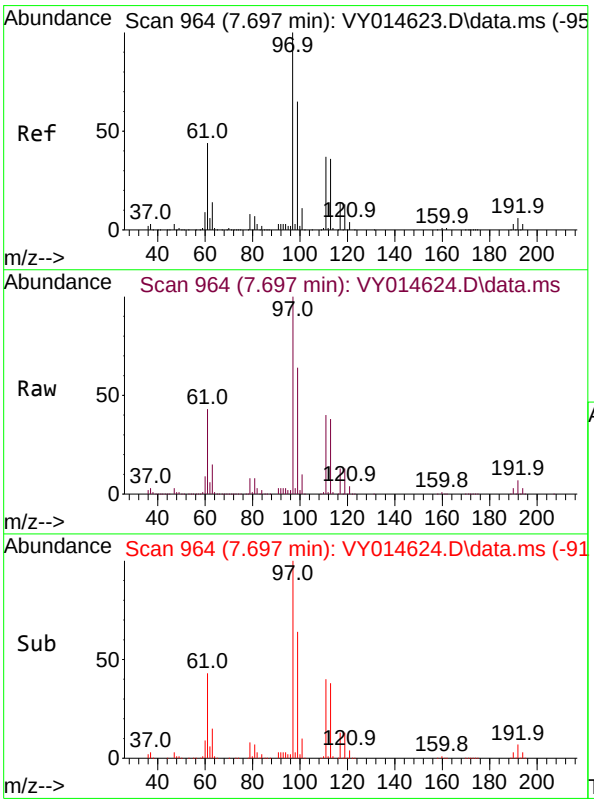
Ion	Ratio	Lower	Upper
56	100		
69	33.1	27.8	41.6
84	88.9	66.4	99.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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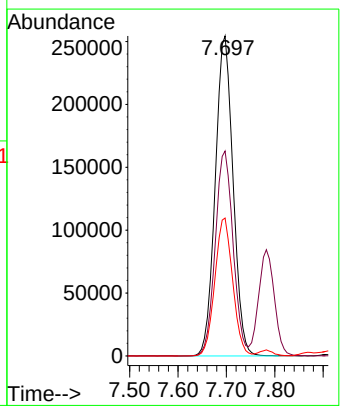


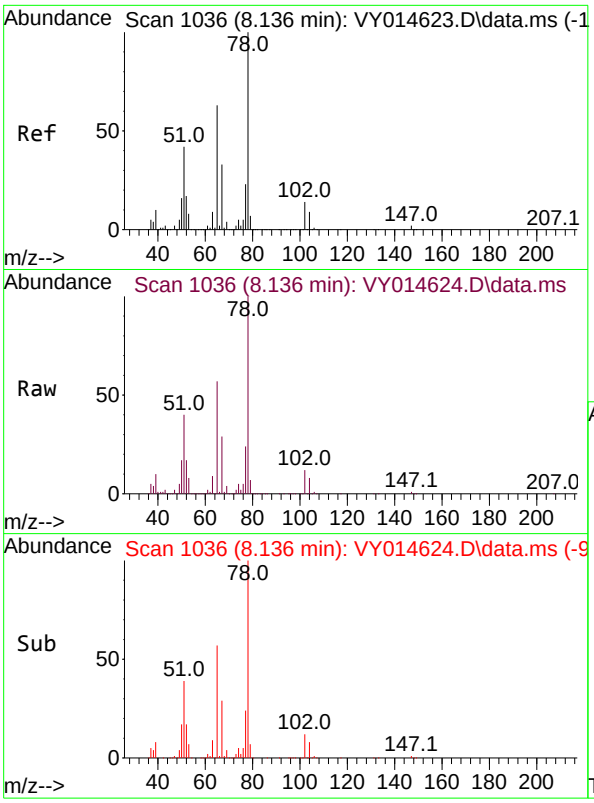


#32
1,1,1-Trichloroethane
Concen: 104.720 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 97 Resp: 652000

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	43.1	35.1	52.7

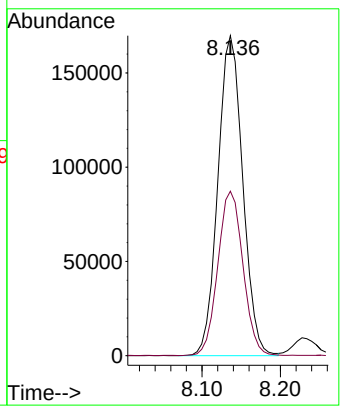




#33
1,2-Dichloroethane-d4
Concen: 99.729 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 65 Resp: 37481

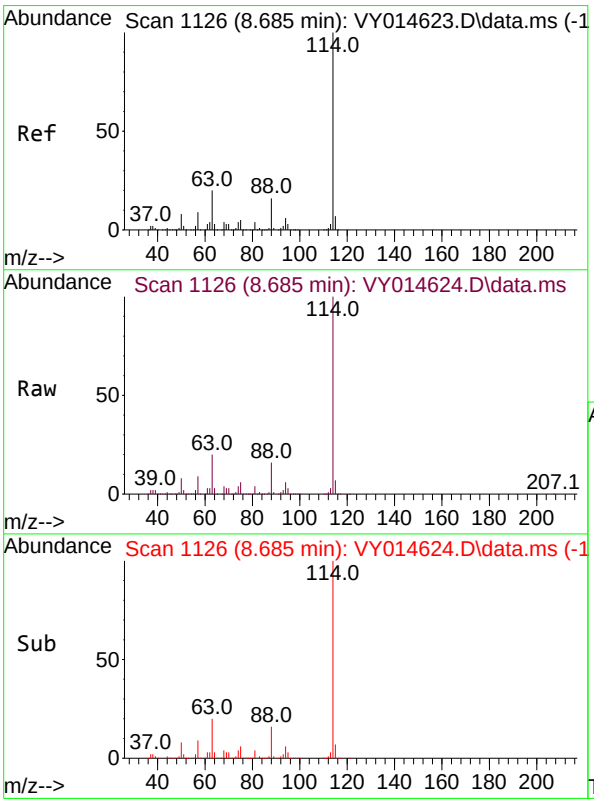
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

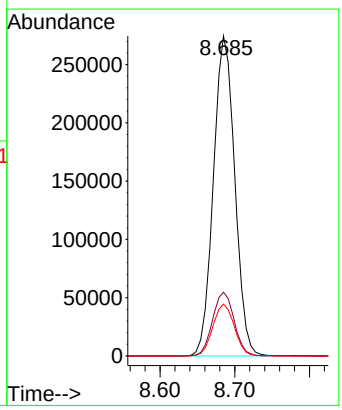
Reviewed By :John Carlone 07/14/2023
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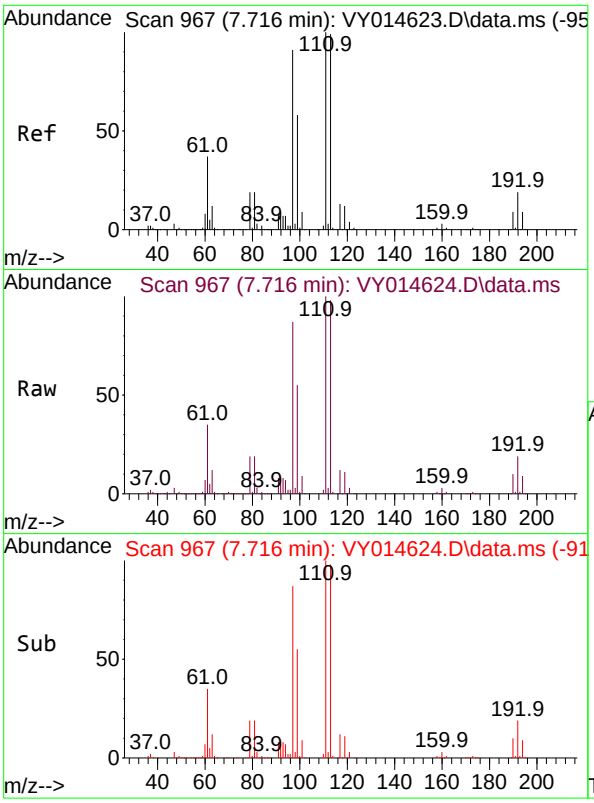


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:114 Resp: 546640

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.4
88	16.2	0.0	30.6

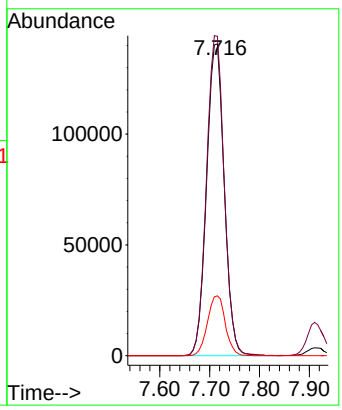




#35
Dibromofluoromethane
Concen: 99.561 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:113 Resp: 34644

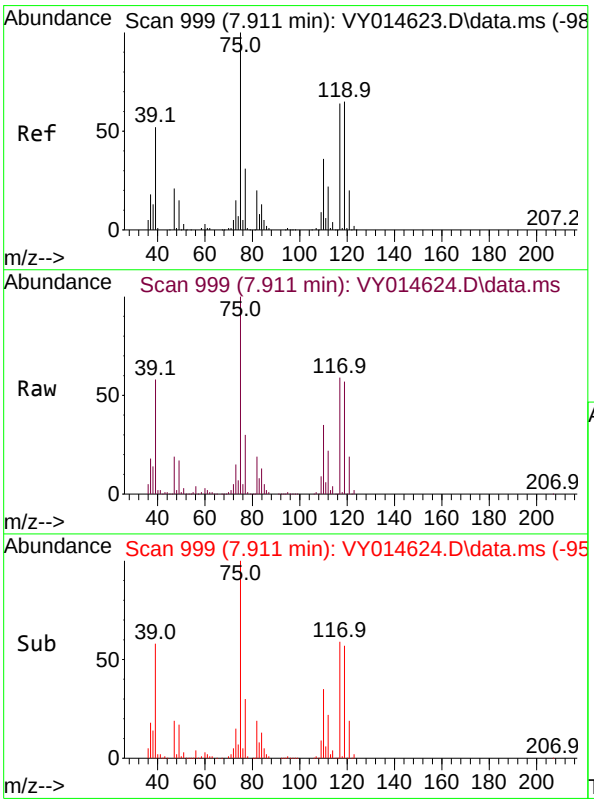
Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.3	121.9
192	19.3	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

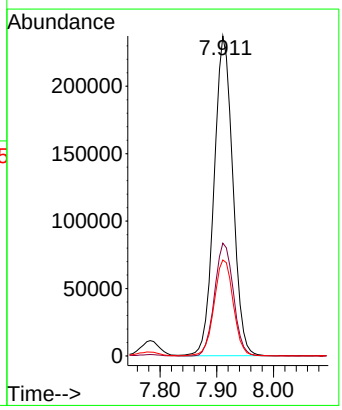
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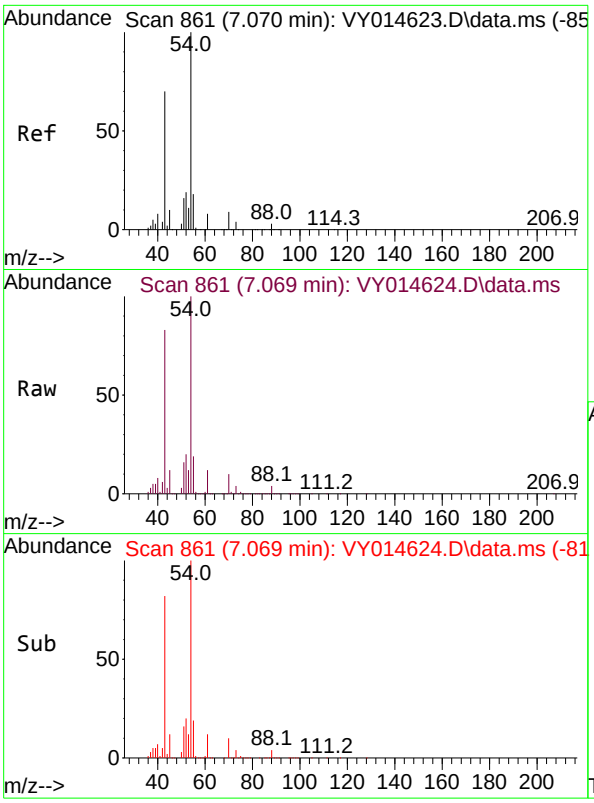


#36
1,1-Dichloropropene
Concen: 104.376 ug/l
RT: 7.911 min Scan# 999
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 75 Resp: 543162

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.8	53.5
77	30.8	24.4	36.6





#37
Ethyl Acetate
Concen: 106.275 ug/l
RT: 7.069 min Scan# 8
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

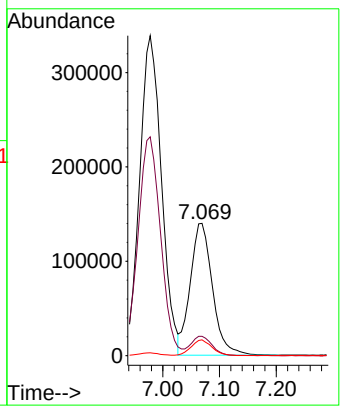
Tgt Ion: 43 Resp: 38076

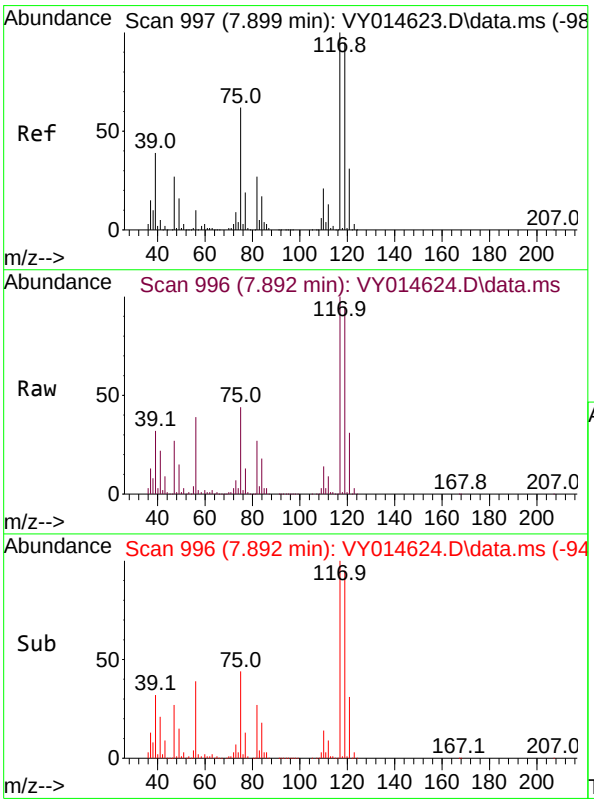
Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.1	15.1
70	11.2	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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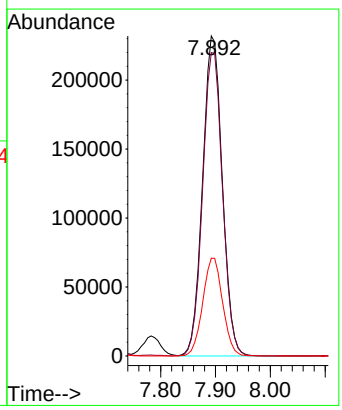


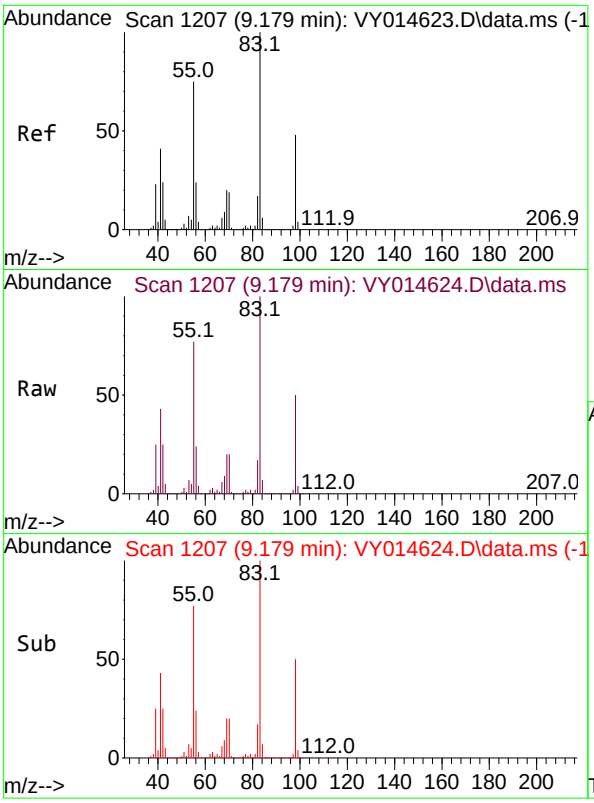


#38
Carbon Tetrachloride
Concen: 105.281 ug/l
RT: 7.892 min Scan# 996
Delta R.T. -0.007 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:117 Resp: 579149

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.4	114.6
121	30.6	25.8	38.6

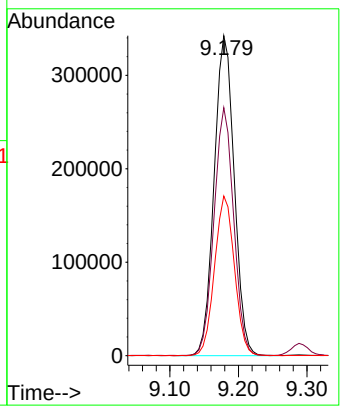




#39
Methylcyclohexane
Concen: 102.711 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 83 Resp: 69635

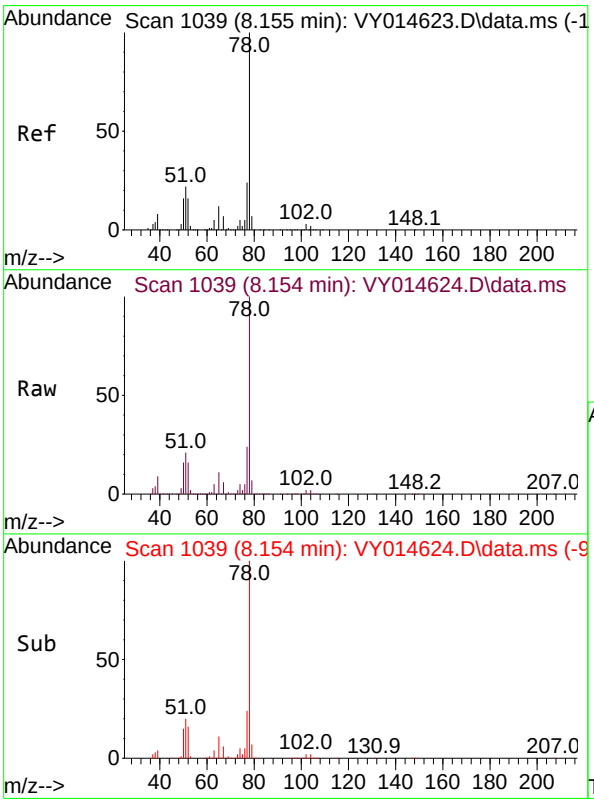
Ion	Ratio	Lower	Upper
83	100		
55	77.4	63.0	94.4
98	49.9	37.4	56.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

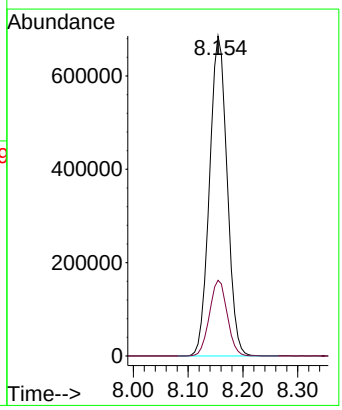
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

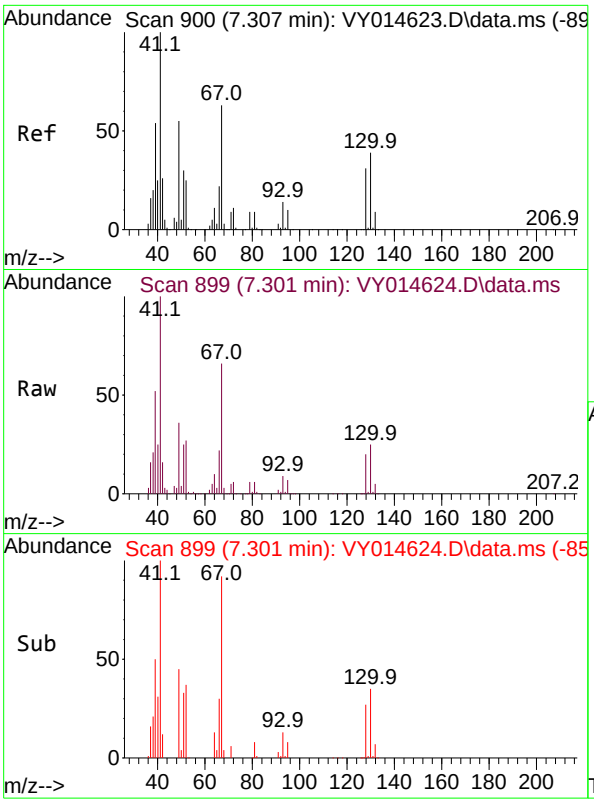


#40
Benzene
Concen: 103.187 ug/l
RT: 8.154 min Scan# 1039
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 78 Resp: 1527187

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

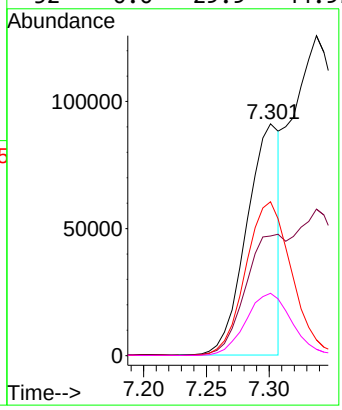




#41
Methacrylonitrile
Concen: 88.050 ug/l m
RT: 7.301 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 41 Resp: 16682

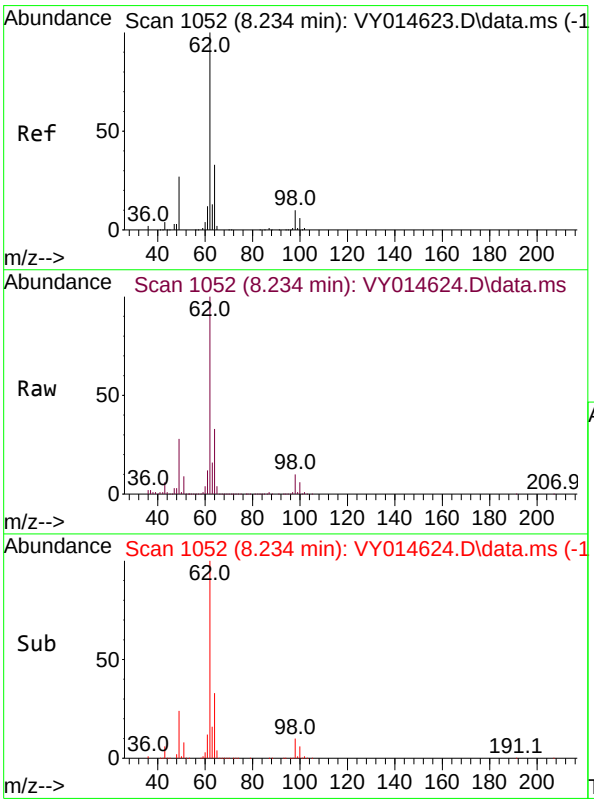
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

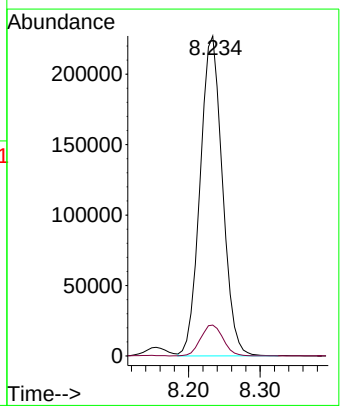
Reviewed By :John Carlone 07/14/2023
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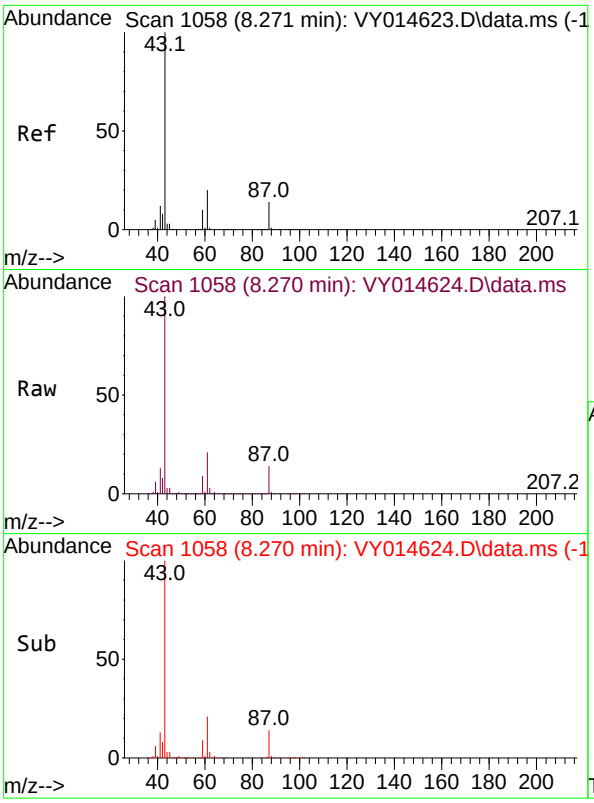


#42
1,2-Dichloroethane
Concen: 104.995 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 62 Resp: 492092

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	15.8

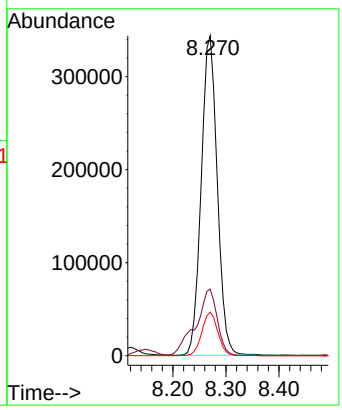




#43
Isopropyl Acetate
Concen: 105.760 ug/l
RT: 8.270 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 43 Resp: 72181

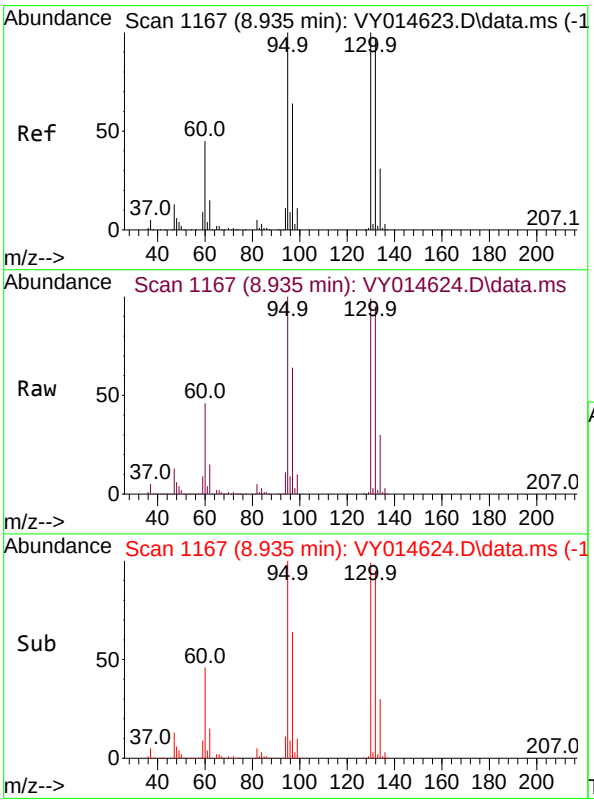
Ion	Ratio	Lower	Upper
43	100		
61	28.0	21.1	31.7
87	13.6	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

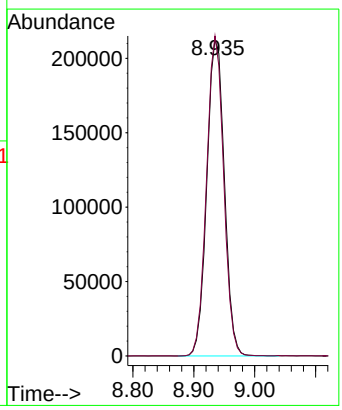
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

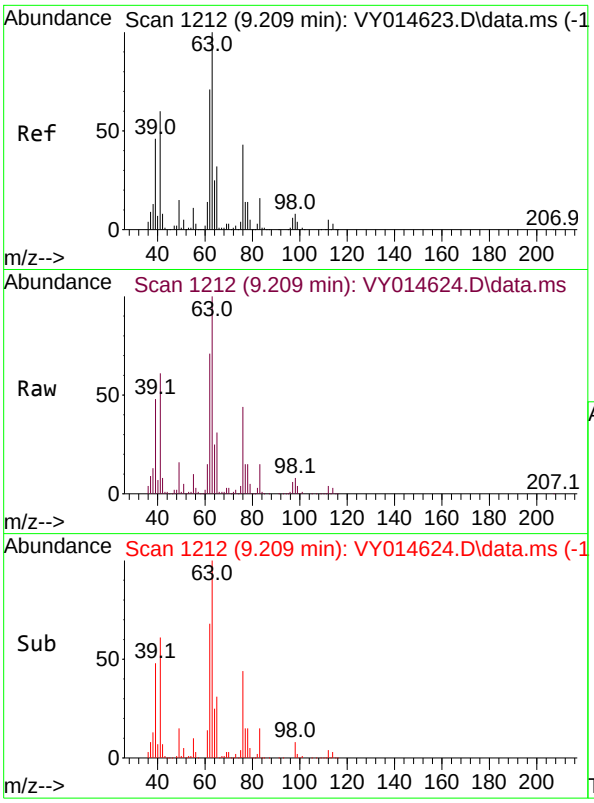


#44
Trichloroethene
Concen: 102.735 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:130 Resp: 425420

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	196.0

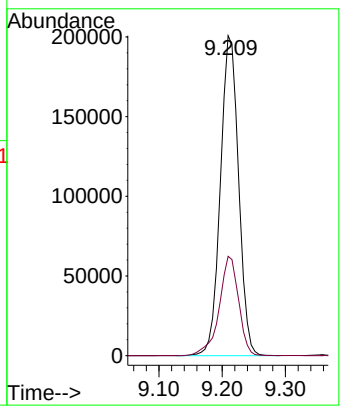




#45
1,2-Dichloropropane
Concen: 103.430 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 63 Resp: 39972

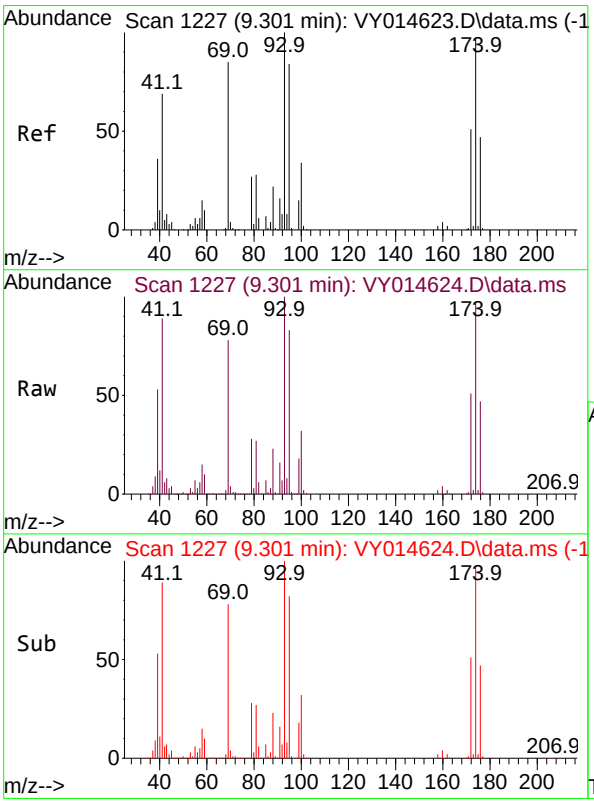
Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

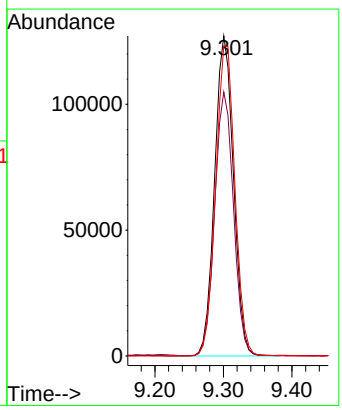
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

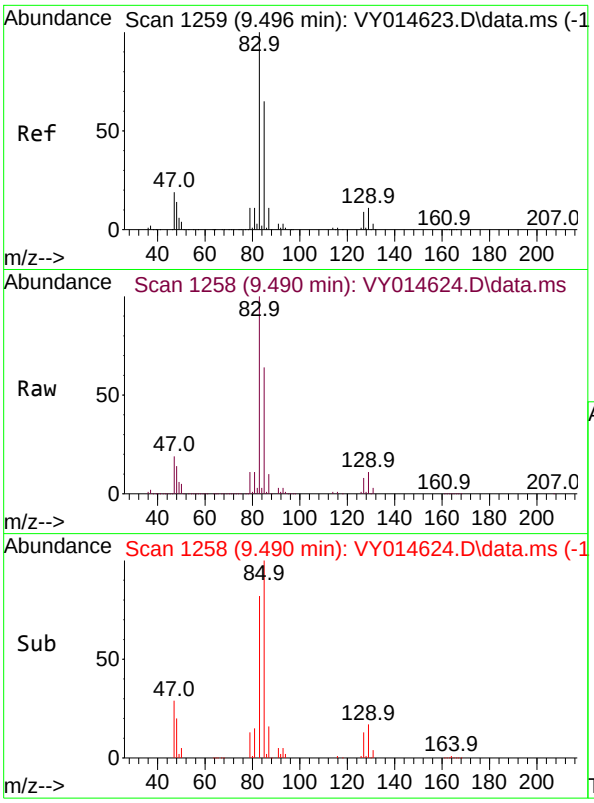


#46
Dibromomethane
Concen: 103.560 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 93 Resp: 242796

Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.6	100.0
174	98.7	84.8	127.2

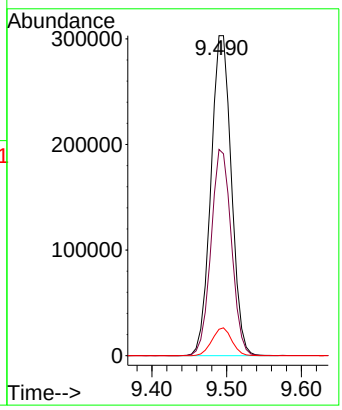




#47
Bromodichloromethane
Concen: 104.529 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 83 Resp: 57760

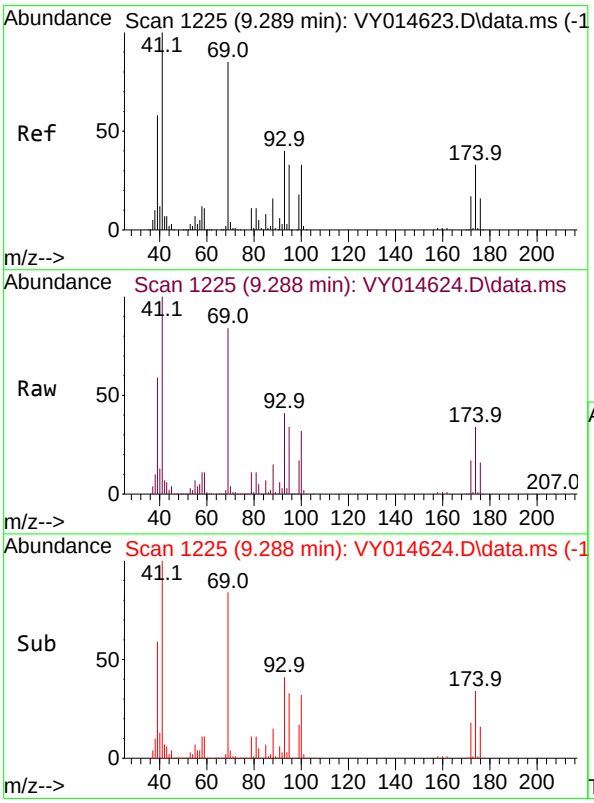
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.1	75.1
127	8.2	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

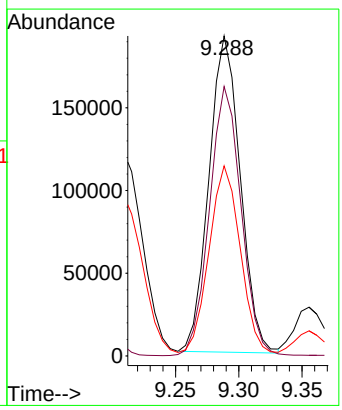
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

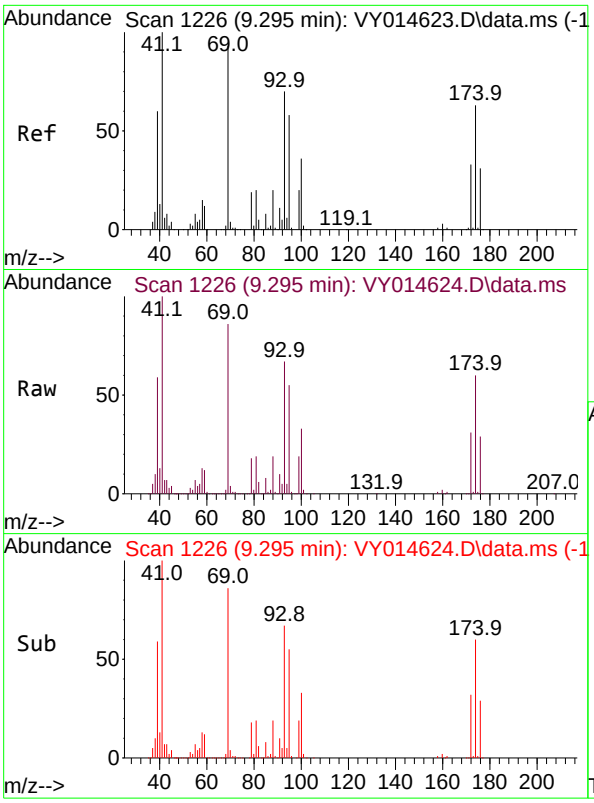


#48
Methyl methacrylate
Concen: 107.310 ug/l
RT: 9.288 min Scan# 1225
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 41 Resp: 329556

Ion	Ratio	Lower	Upper
41	100		
69	85.9	64.5	96.7
39	58.5	50.8	76.2

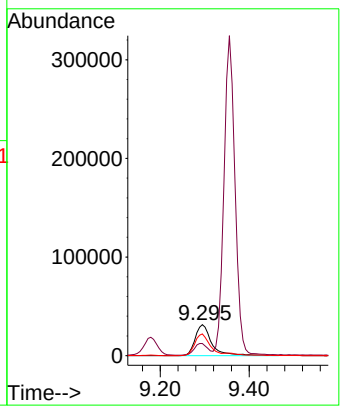




#49
1,4-Dioxane
Concen: 2143.184 ug/l
RT: 9.295 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 88 Resp: 8193

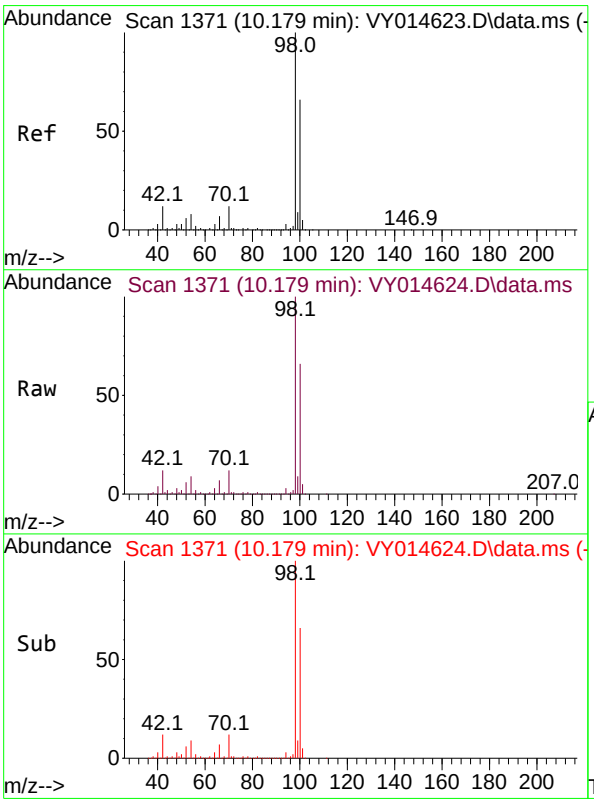
Ion	Ratio	Lower	Upper
88	100		
43	31.7	0.0	0.0#
58	63.8	30.9	46.3#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

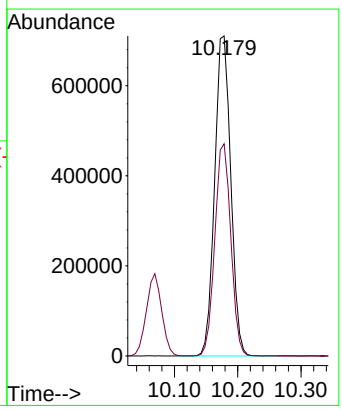
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

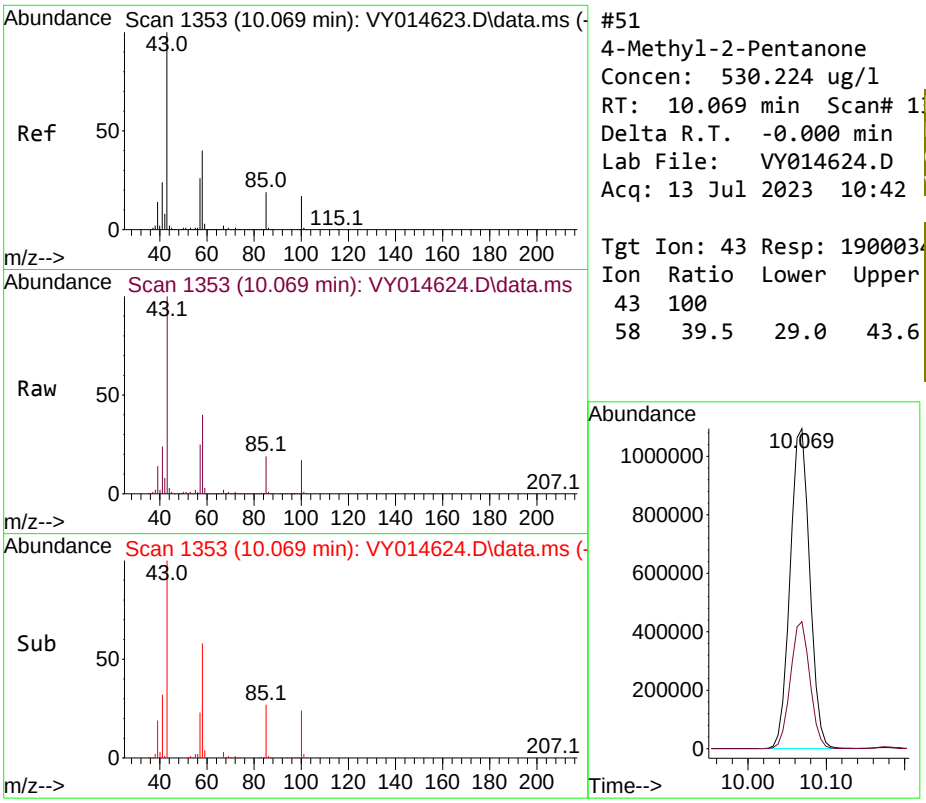


#50
Toluene-d8
Concen: 97.614 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 98 Resp: 1252312

Ion	Ratio	Lower	Upper
98	100		
100	65.8	50.1	75.1





#51
4-Methyl-2-Pentanone
Concen: 530.224 ug/l
RT: 10.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

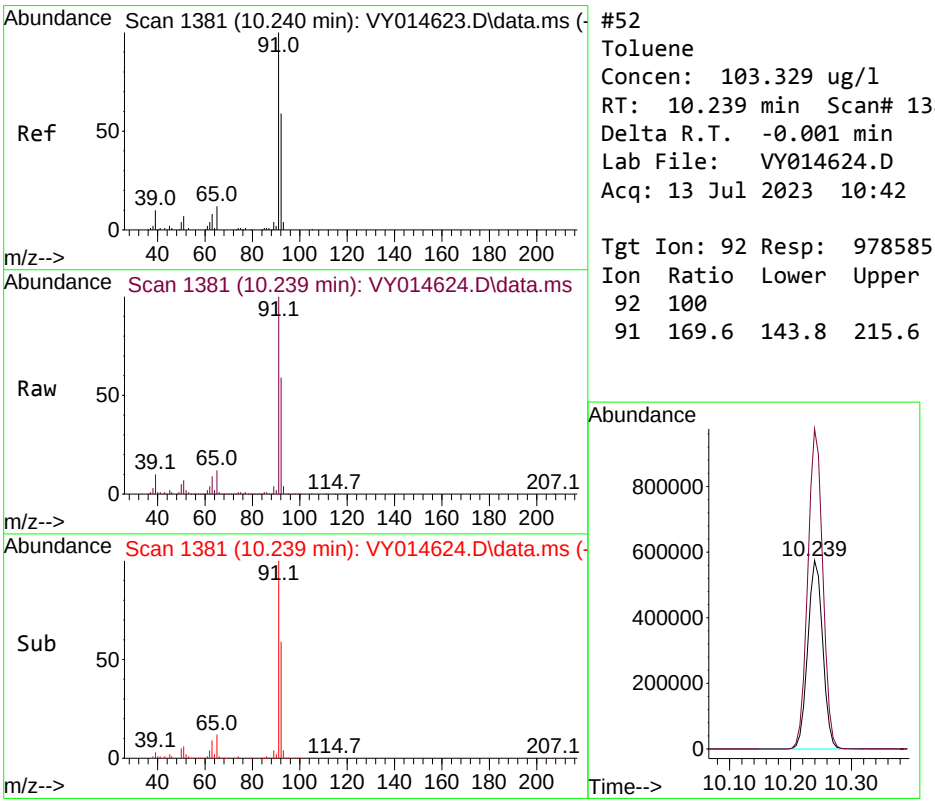
Tgt Ion: 43 Resp: 190003

Ion	Ratio	Lower	Upper
43	100		
58	39.5	29.0	43.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

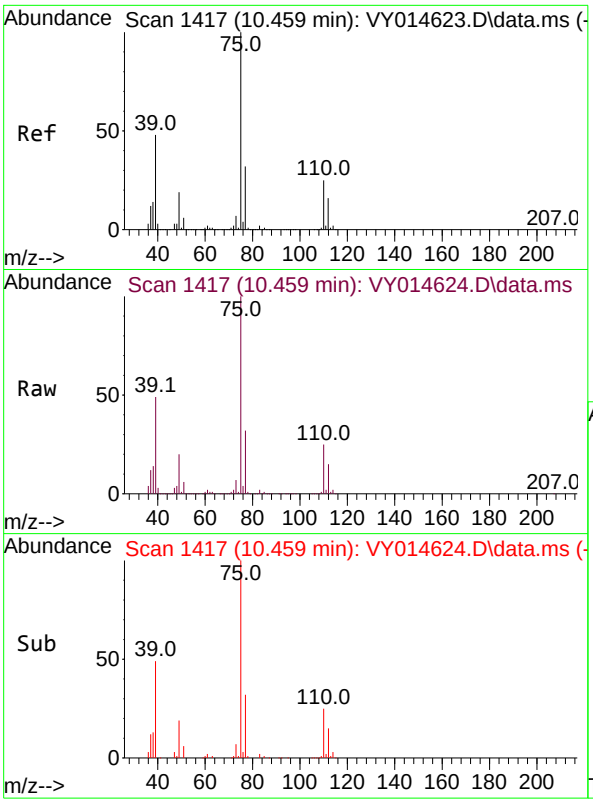
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#52
Toluene
Concen: 103.329 ug/l
RT: 10.239 min Scan# 1381
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 92 Resp: 978585

Ion	Ratio	Lower	Upper
92	100		
91	169.6	143.8	215.6



#53
t-1,3-Dichloropropene
Concen: 104.316 ug/l
RT: 10.459 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

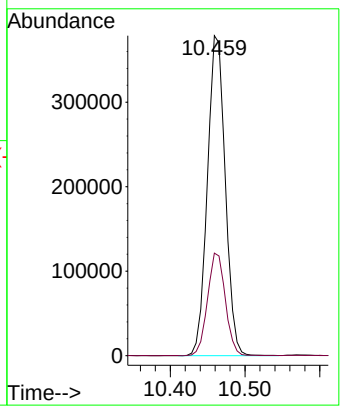
Tgt Ion: 75 Resp: 63051

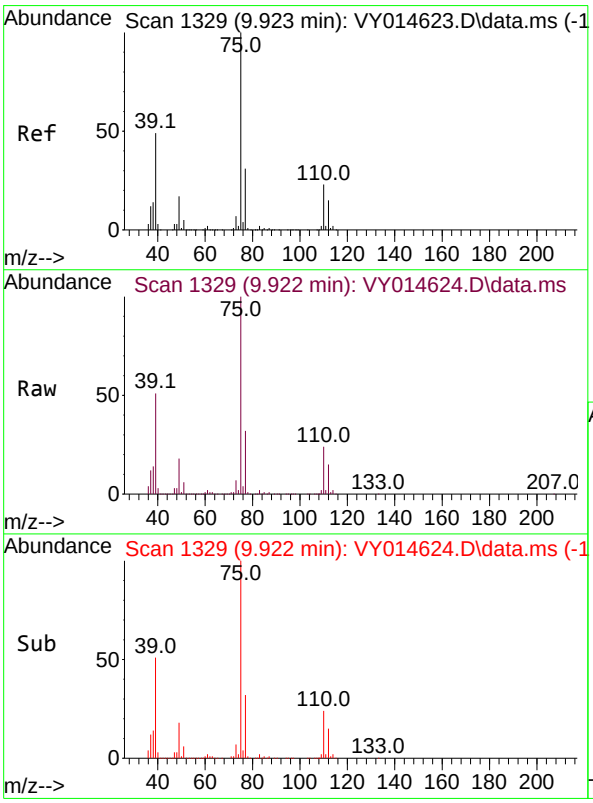
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

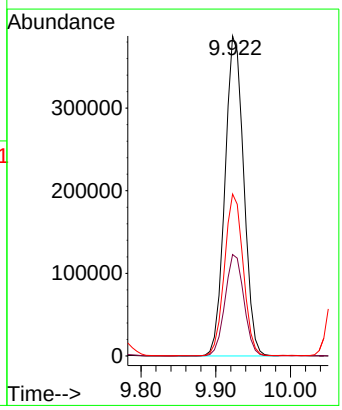


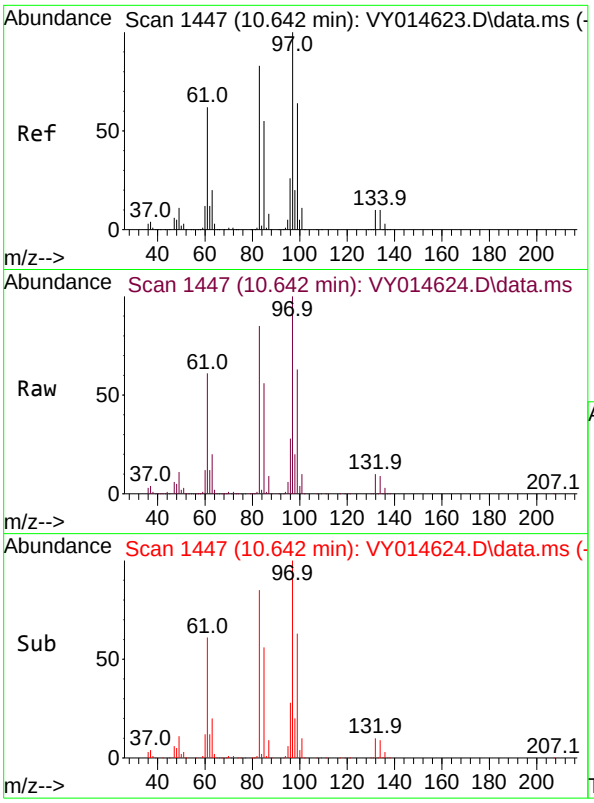


#54
cis-1,3-Dichloropropene
Concen: 103.054 ug/l
RT: 9.922 min Scan# 1329
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 75 Resp: 677367

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.2	36.4
39	50.5	42.2	63.4

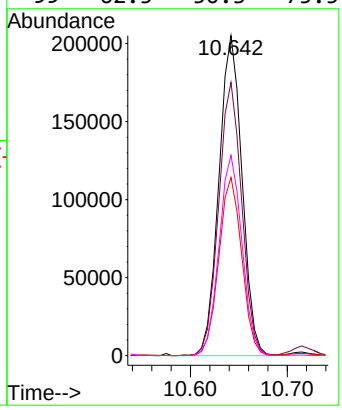




#55
1,1,2-Trichloroethane
Concen: 104.354 ug/l
RT: 10.642 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 97 Resp: 340799

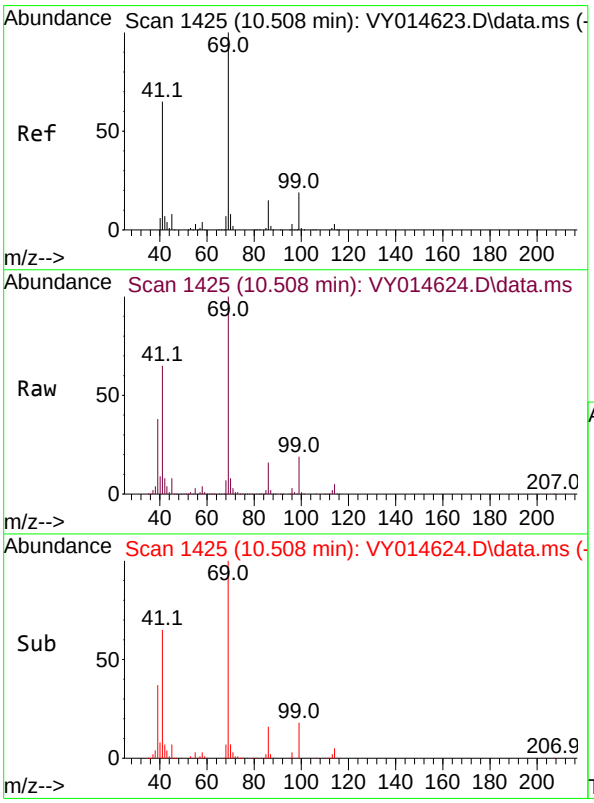
Ion	Ratio	Lower	Upper
97	100		
83	85.4	72.0	108.0
85	55.6	45.4	68.0
99	62.5	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

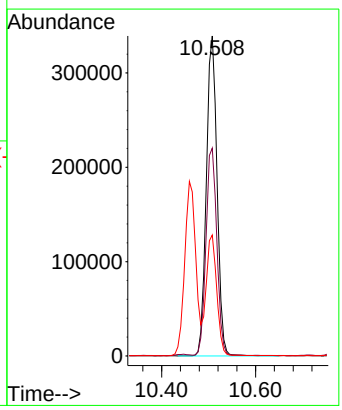
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

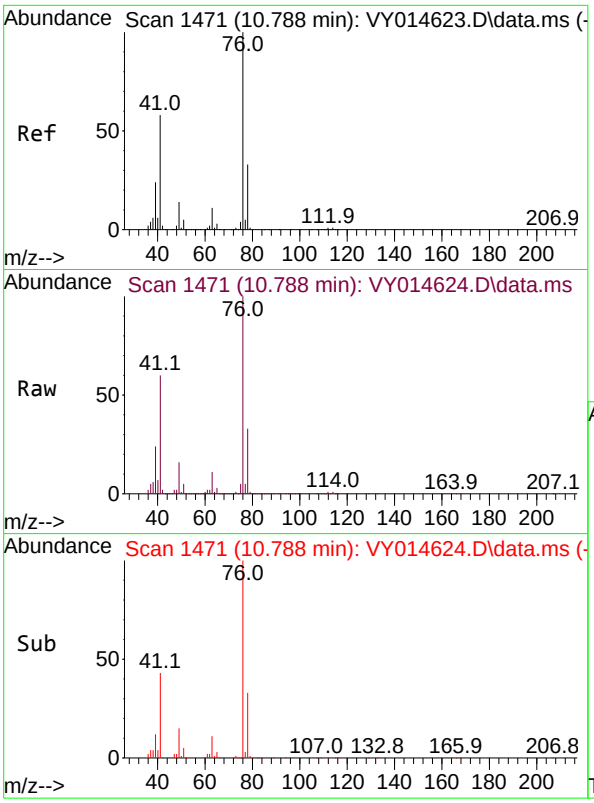


#56
Ethyl methacrylate
Concen: 107.115 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 69 Resp: 534113

Ion	Ratio	Lower	Upper
69	100		
41	65.8	57.6	86.4
39	37.4	34.1	51.1

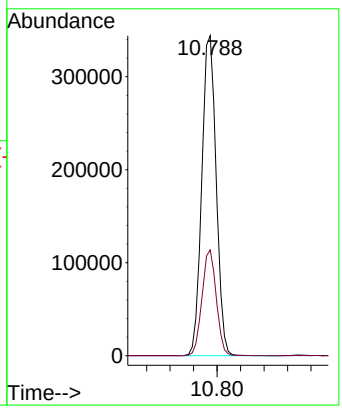




#57
1,3-Dichloropropane
Concen: 103.662 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 76 Resp: 58391

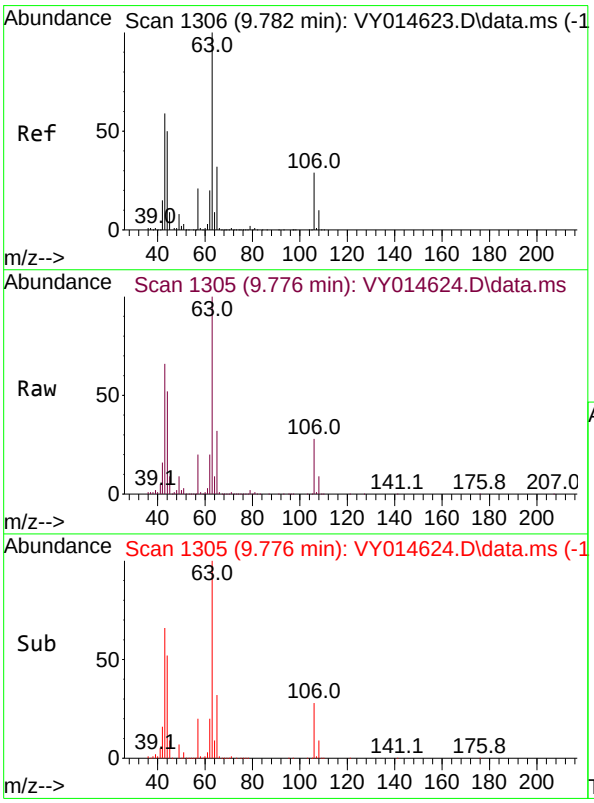
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

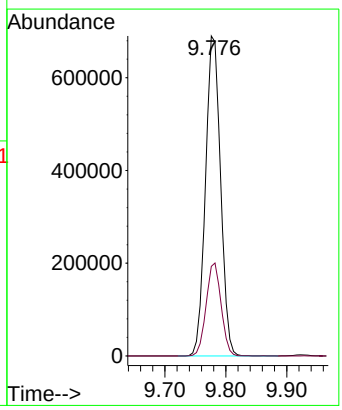
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

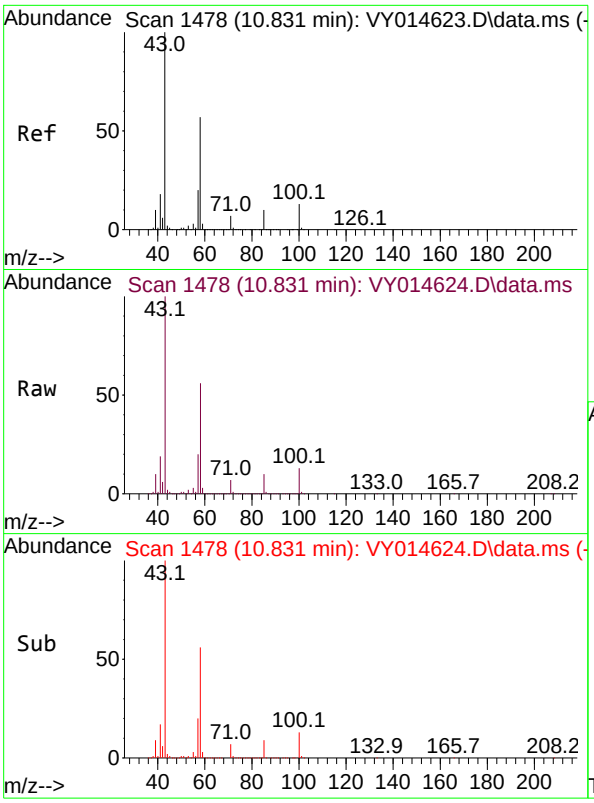


#58
2-Chloroethyl Vinyl ether
Concen: 511.005 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 63 Resp: 1187244

Ion	Ratio	Lower	Upper
63	100		
106	28.8	21.2	31.8





#59
2-Hexanone
Concen: 531.625 ug/l
RT: 10.831 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

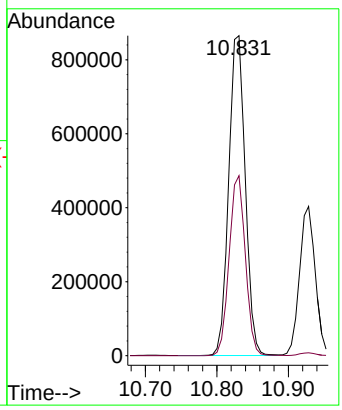
Tgt Ion: 43 Resp: 138926

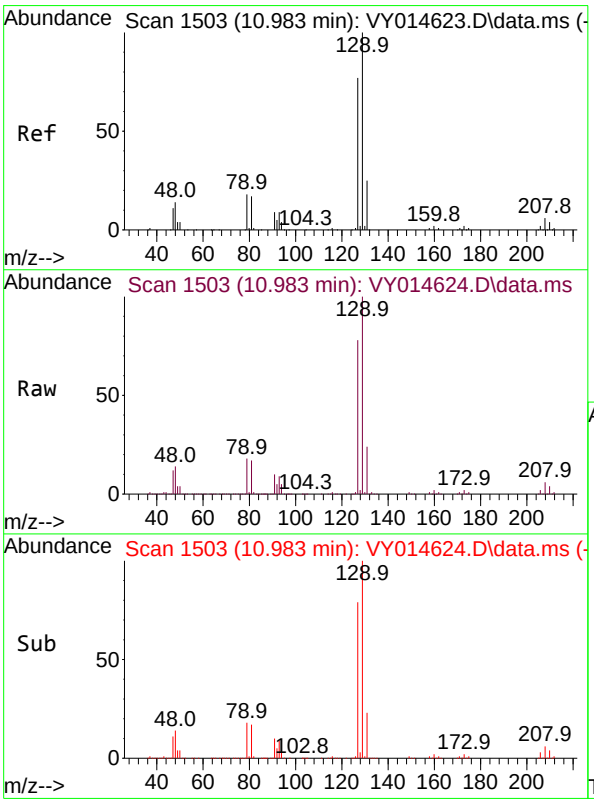
Ion	Ratio	Lower	Upper
43	100		
58	55.1	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

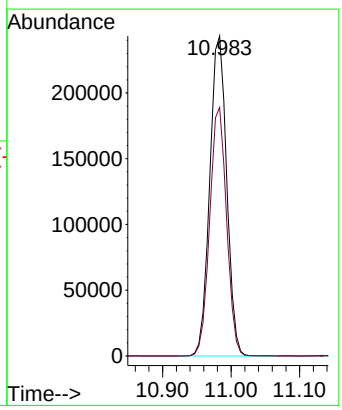


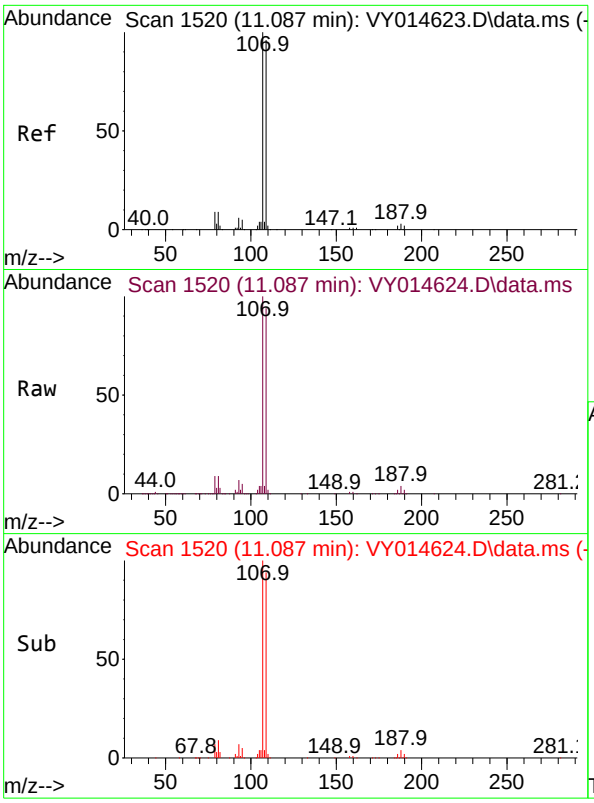


#60
Dibromochloromethane
Concen: 104.390 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:129 Resp: 417987

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

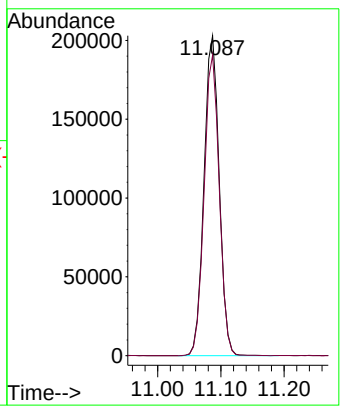




#61
1,2-Dibromoethane
Concen: 104.058 ug/l
RT: 11.087 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:107 Resp: 33901

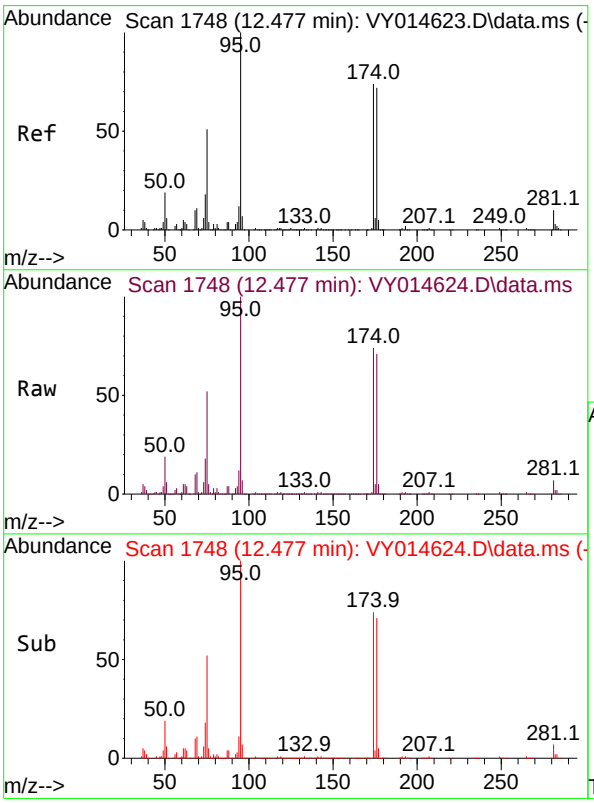
Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

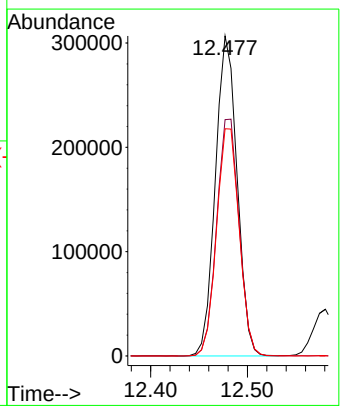
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

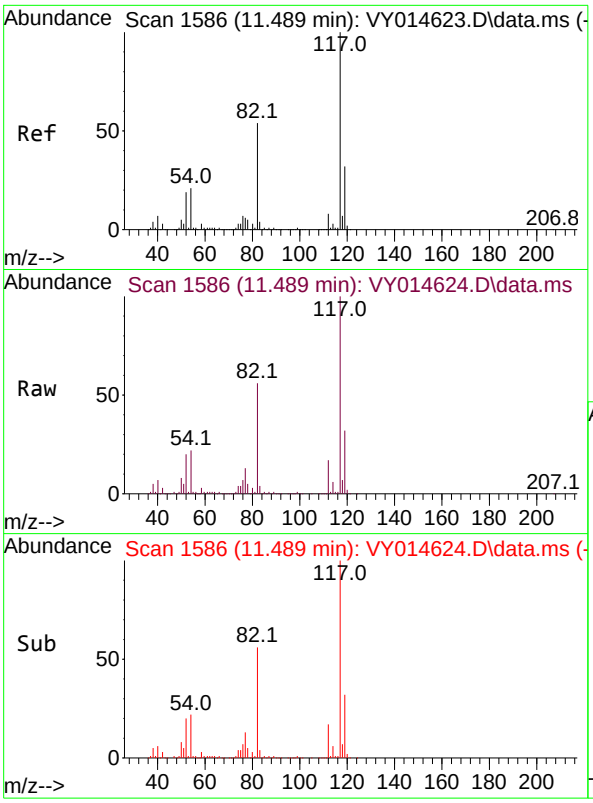


#62
4-Bromofluorobenzene
Concen: 97.342 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 95 Resp: 478847

Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	178.2
176	74.0	0.0	173.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

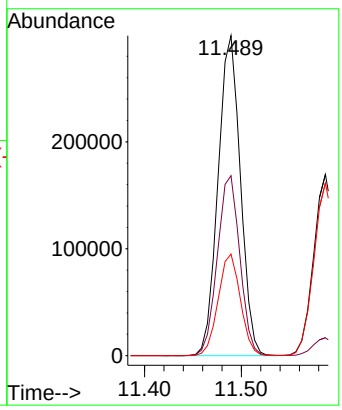
Tgt Ion:117 Resp: 47971

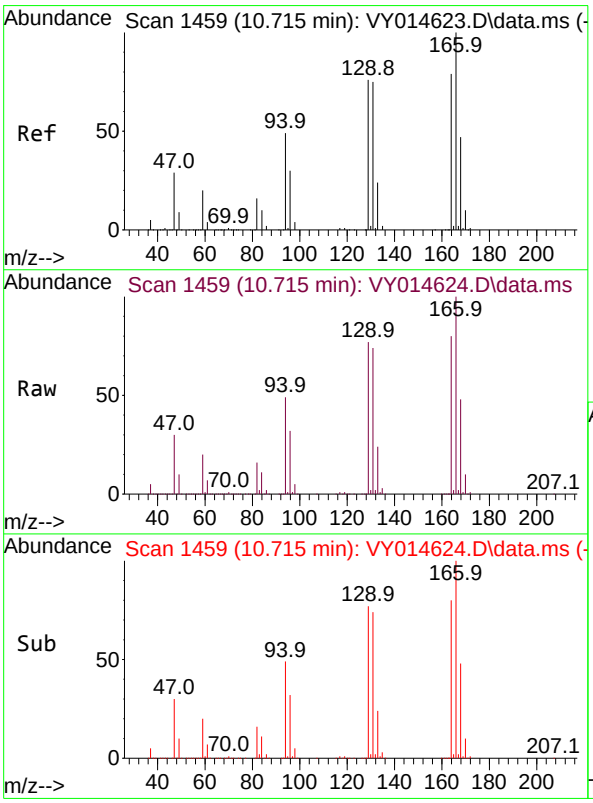
Ion	Ratio	Lower	Upper
117	100		
82	56.2	43.4	65.0
119	31.8	26.3	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

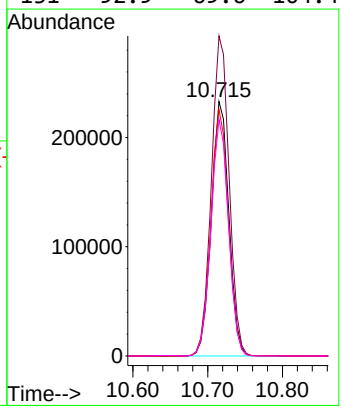


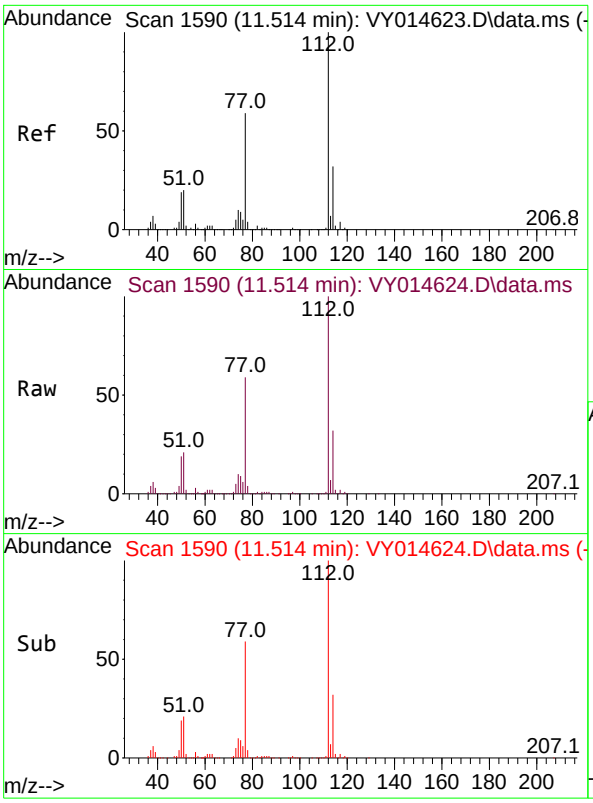


#64
Tetrachloroethene
Concen: 98.679 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:164 Resp: 380719

Ion	Ratio	Lower	Upper
164	100		
166	125.8	103.0	154.6
129	96.8	77.2	115.8
131	92.9	69.6	104.4

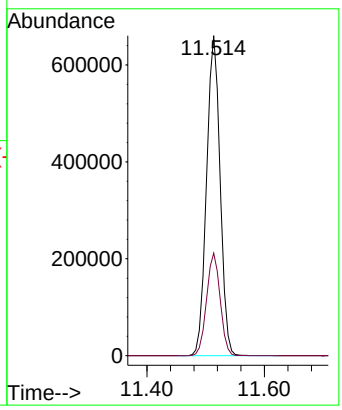




#65
Chlorobenzene
Concen: 103.300 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:112 Resp: 105598

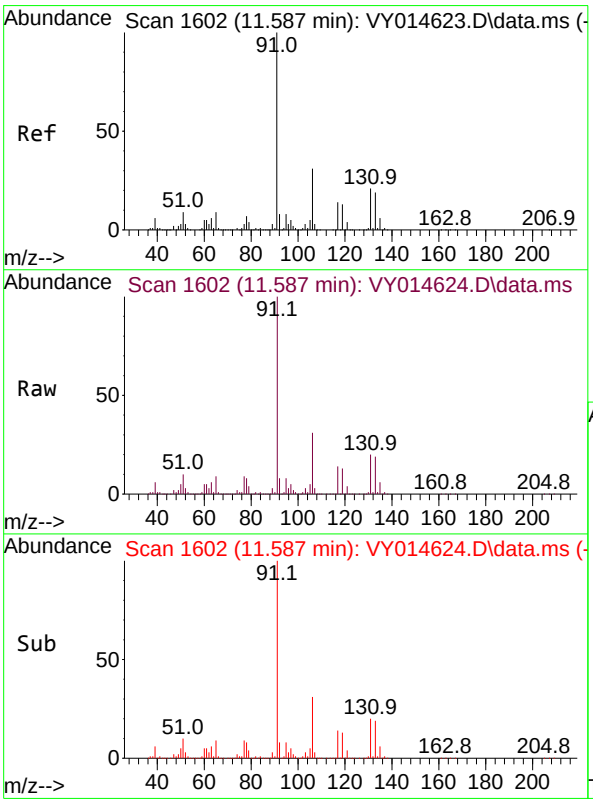
Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

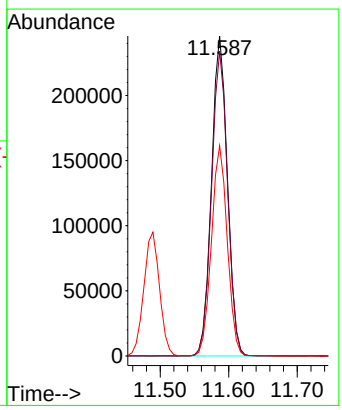
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

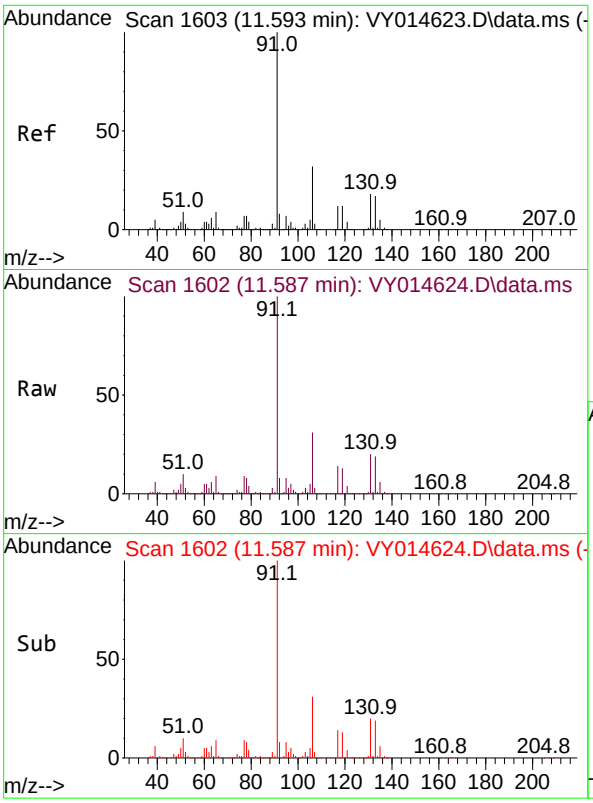


#66
1,1,1,2-Tetrachloroethane
Concen: 102.964 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:131 Resp: 396858

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.5	142.6
119	65.5	31.6	94.7

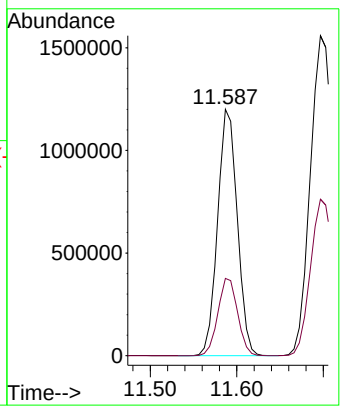




#67
Ethyl Benzene
Concen: 102.591 ug/l
RT: 11.587 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 91 Resp: 189350

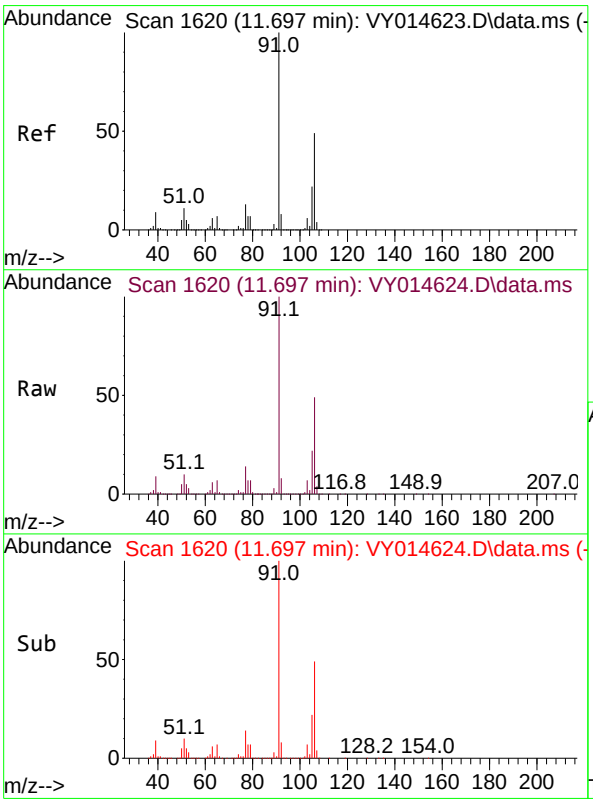
Ion	Ratio	Lower	Upper
91	100		
106	31.4	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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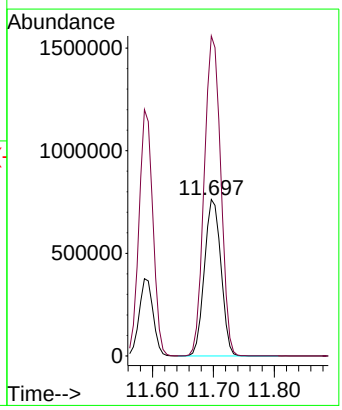
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

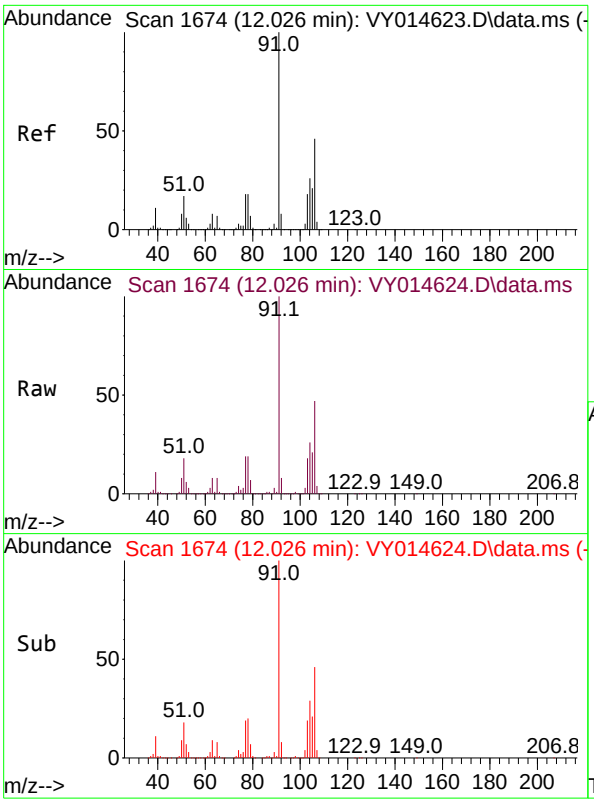


#68
m/p-Xylenes
Concen: 204.316 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:106 Resp: 1439492

Ion	Ratio	Lower	Upper
106	100		
91	204.0	166.1	249.1

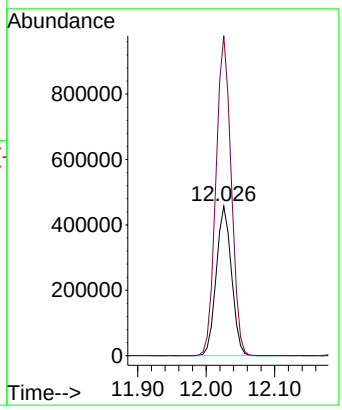




#69
o-Xylene
Concen: 102.740 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:106 Resp: 70503

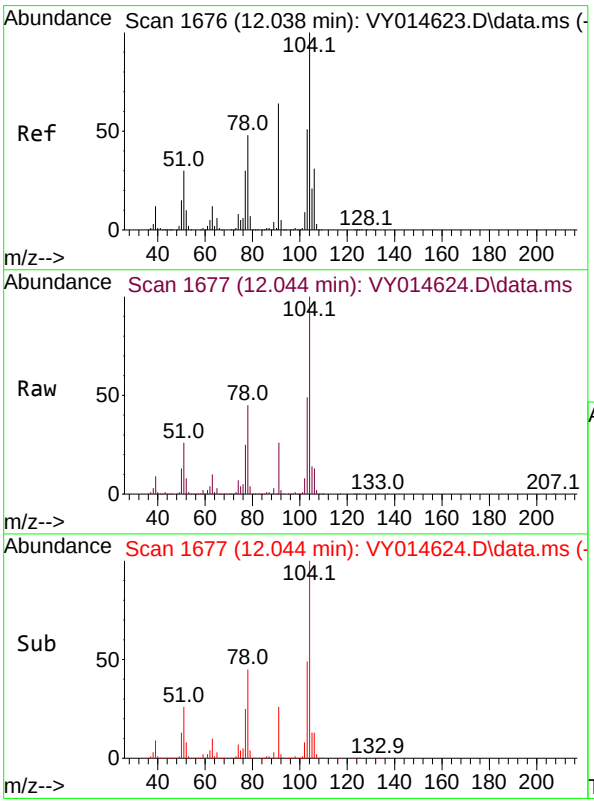
Ion	Ratio	Lower	Upper
106	100		
91	214.5	108.1	324.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

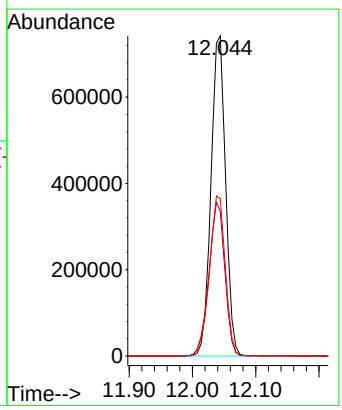
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

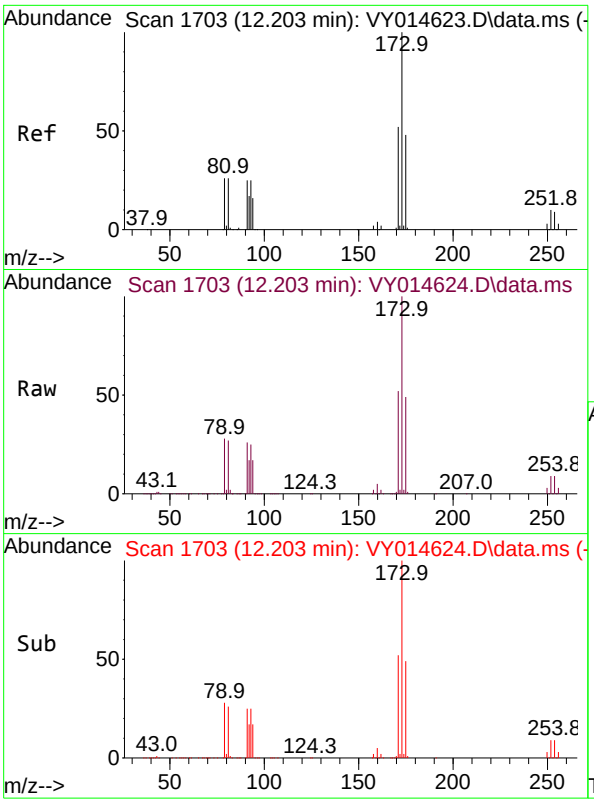


#70
Styrene
Concen: 102.724 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:104 Resp: 1188097

Ion	Ratio	Lower	Upper
104	100		
78	52.4	41.5	62.3
103	54.3	44.6	67.0

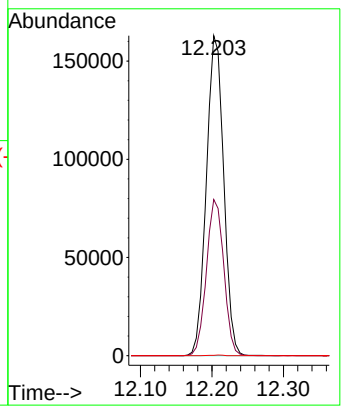




#71
Bromoform
Concen: 104.796 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:173 Resp: 27378

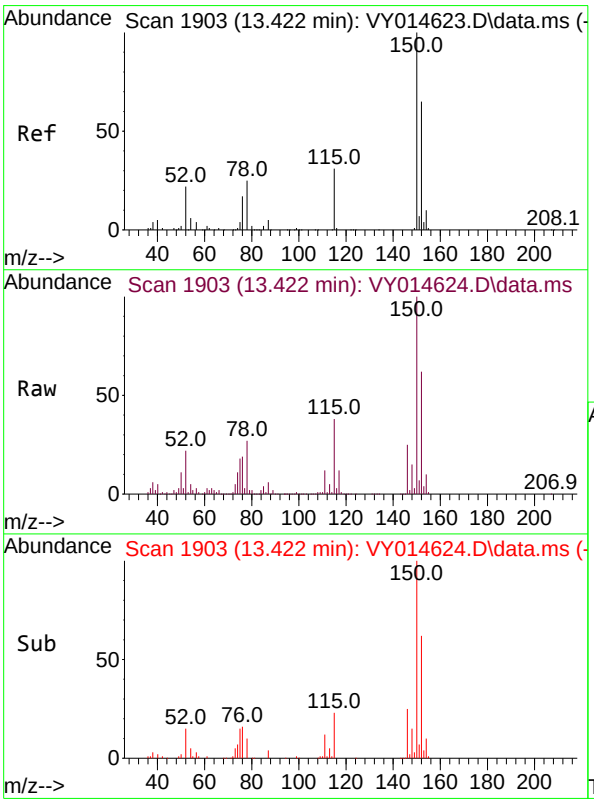
Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

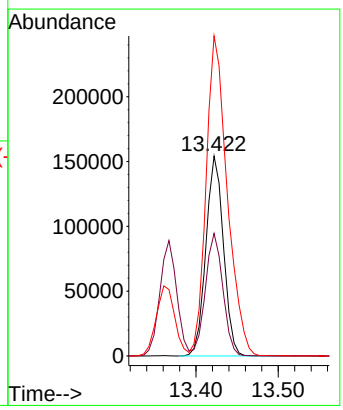
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

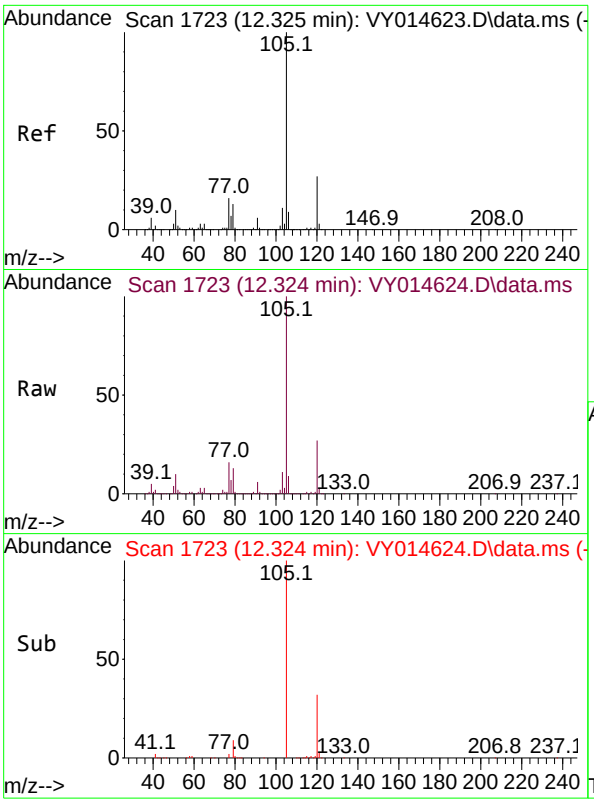


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:152 Resp: 229317

Ion	Ratio	Lower	Upper
152	100		
115	60.9	28.8	86.5
150	192.5	0.0	348.8

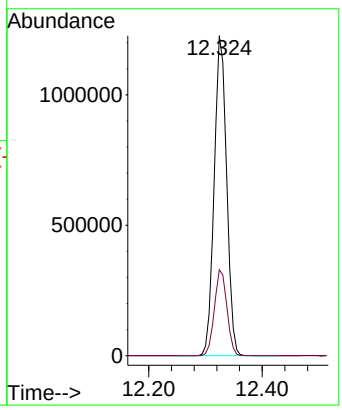




#73
Isopropylbenzene
Concen: 104.041 ug/l
RT: 12.324 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:105 Resp: 186812

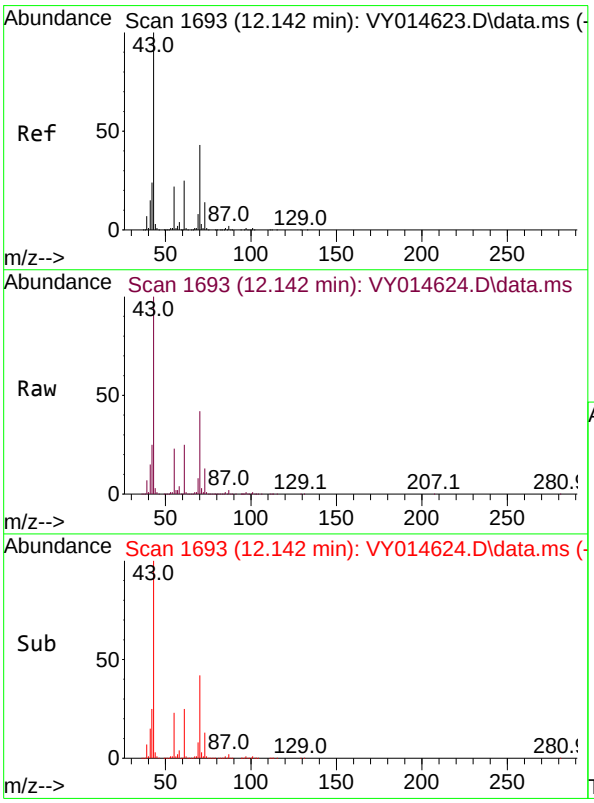
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

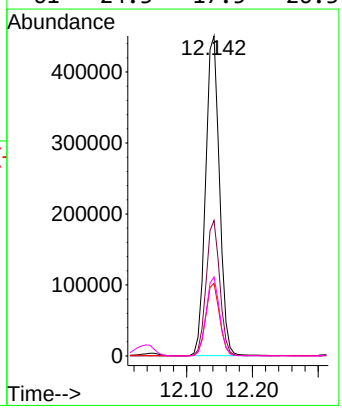
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

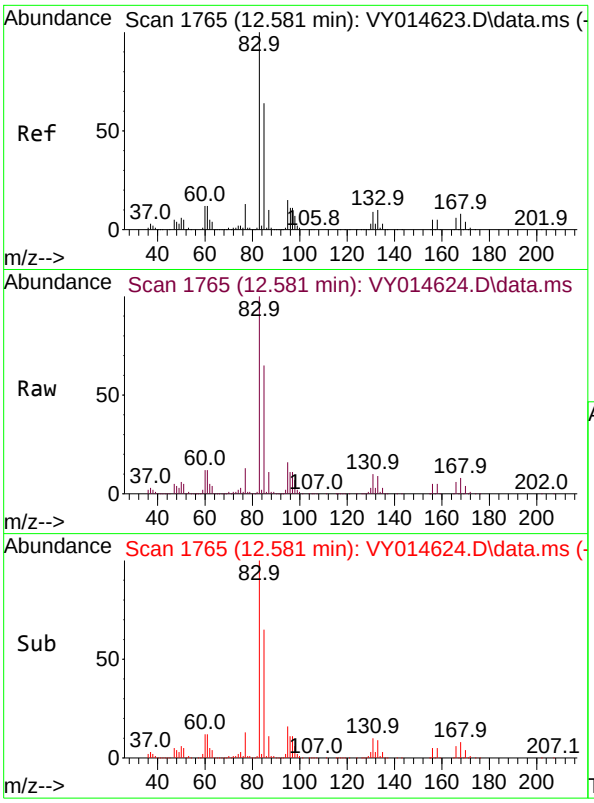


#74
N-amyl acetate
Concen: 109.578 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 43 Resp: 658969

Ion	Ratio	Lower	Upper
43	100		
70	41.8	29.7	44.5
55	22.5	18.3	27.5
61	24.3	17.5	26.3

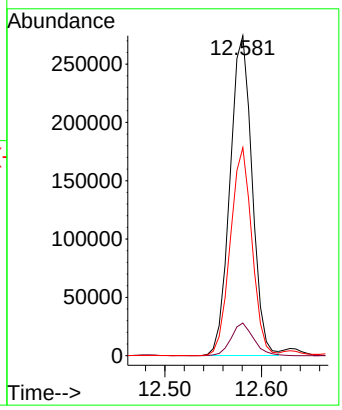




#75
1,1,2,2-Tetrachloroethane
Concen: 106.365 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 83 Resp: 43553

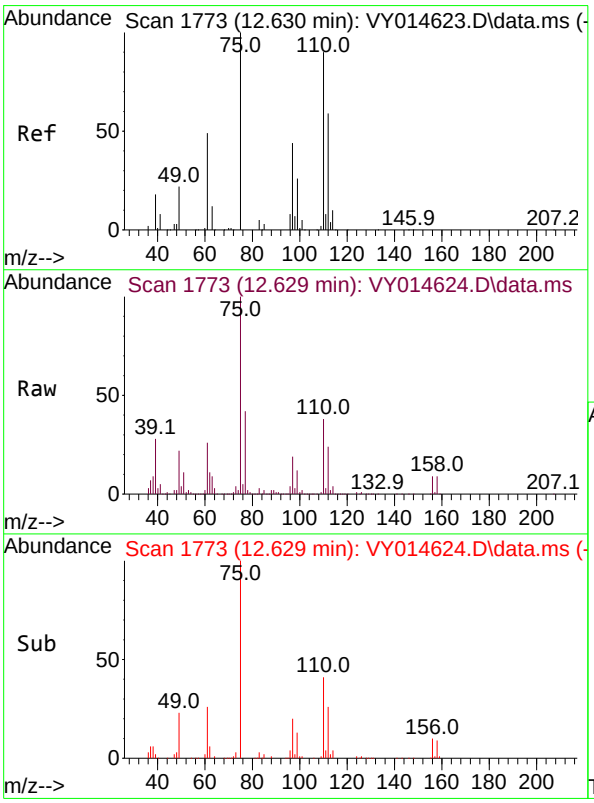
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.4	16.2
85	63.8	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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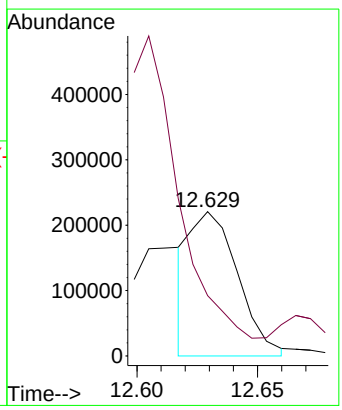
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

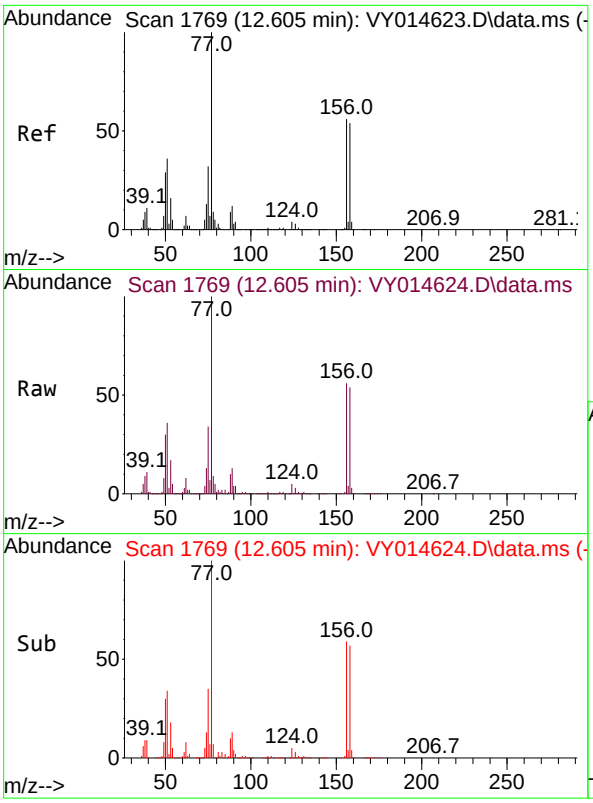


#76
1,2,3-Trichloropropane
Concen: 104.103 ug/l m
RT: 12.629 min Scan# 1773
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 75 Resp: 305504

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

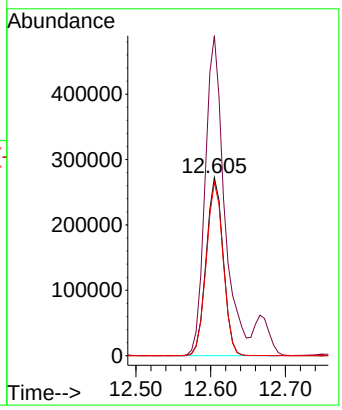




#77
Bromobenzene
Concen: 104.791 ug/l
RT: 12.605 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:156 Resp: 42950

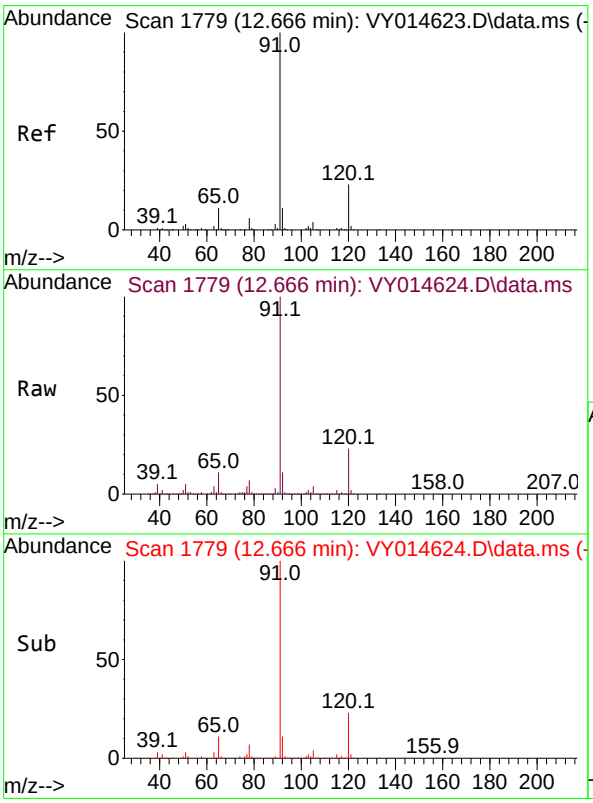
Ion	Ratio	Lower	Upper
156	100		
77	202.4	92.8	278.6
158	97.0	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

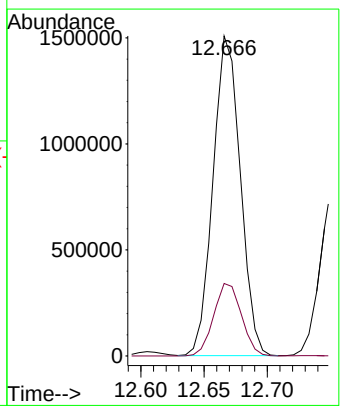
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

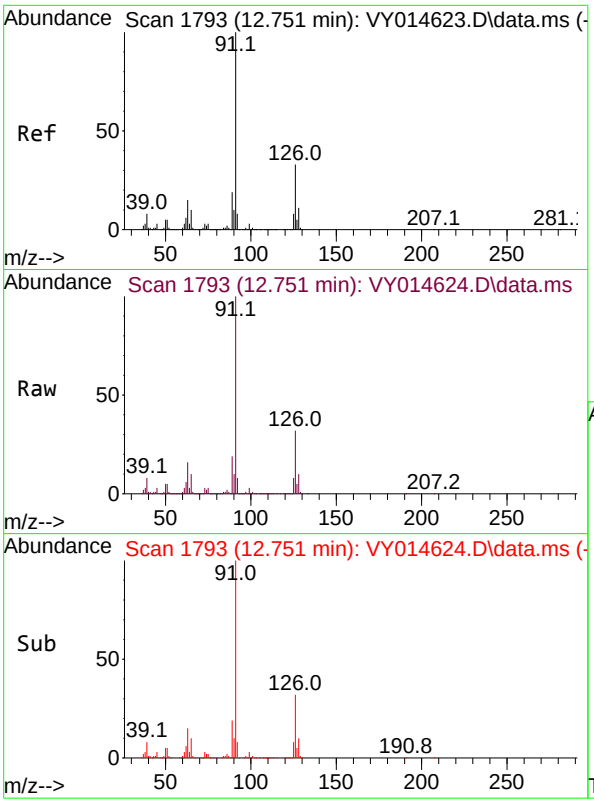


#78
n-propylbenzene
Concen: 104.626 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 91 Resp: 2263757

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4





#79
2-Chlorotoluene
Concen: 104.624 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

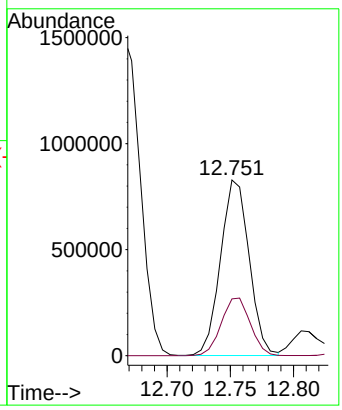
Tgt Ion: 91 Resp: 130386

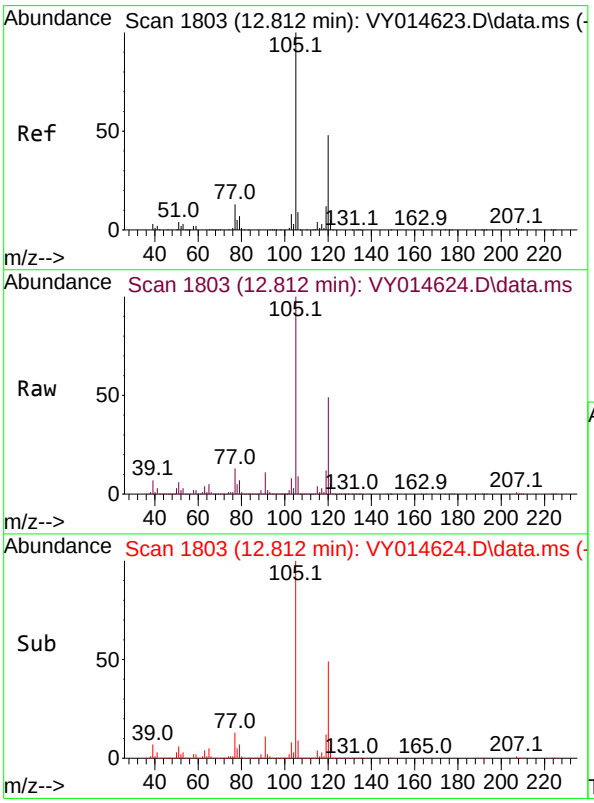
Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.3	51.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

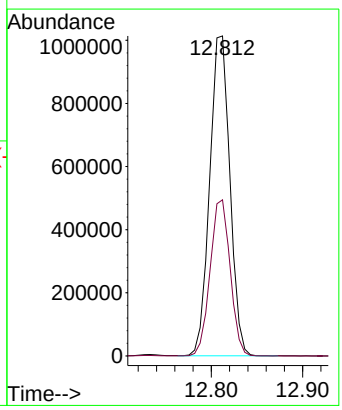


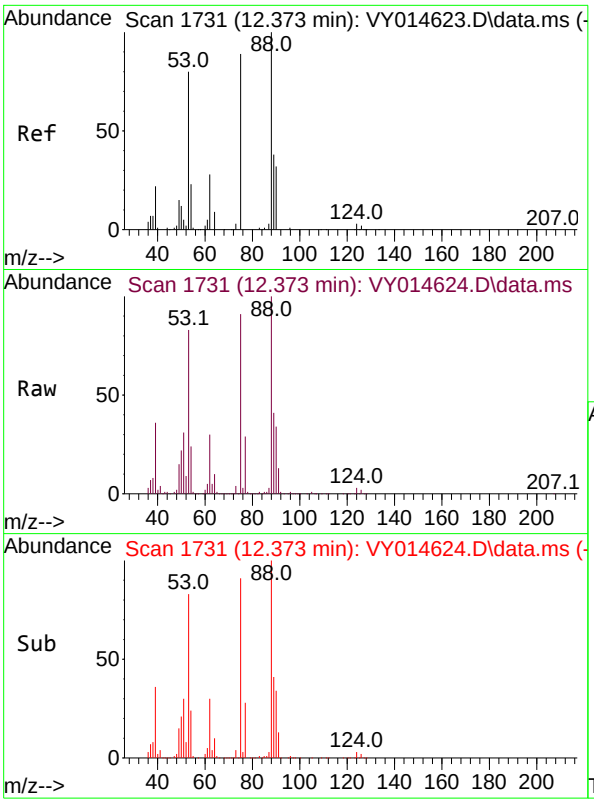


#80
1,3,5-Trimethylbenzene
Concen: 103.572 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:105 Resp: 1553124

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.9	71.7

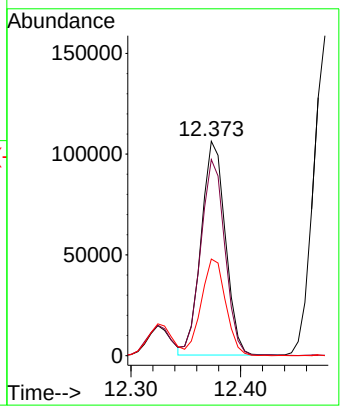




#81
trans-1,4-Dichloro-2-butene
Concen: 109.052 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 75 Resp: 16312

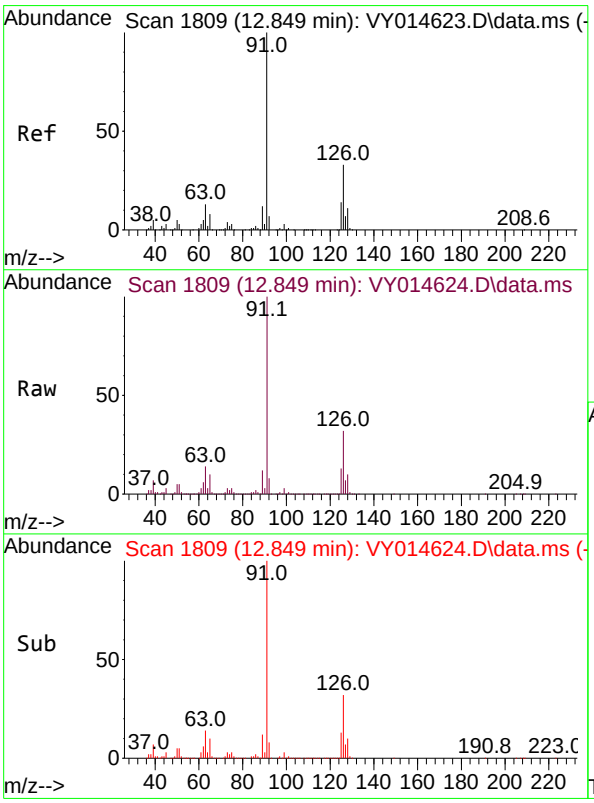
Ion	Ratio	Lower	Upper
75	100		
53	91.7	77.8	116.8
89	45.4	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

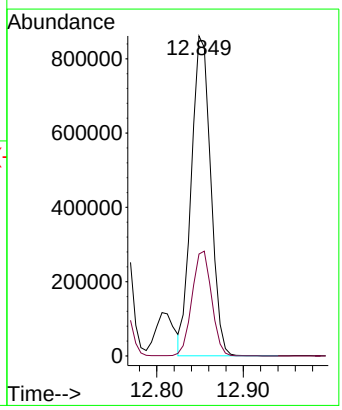
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

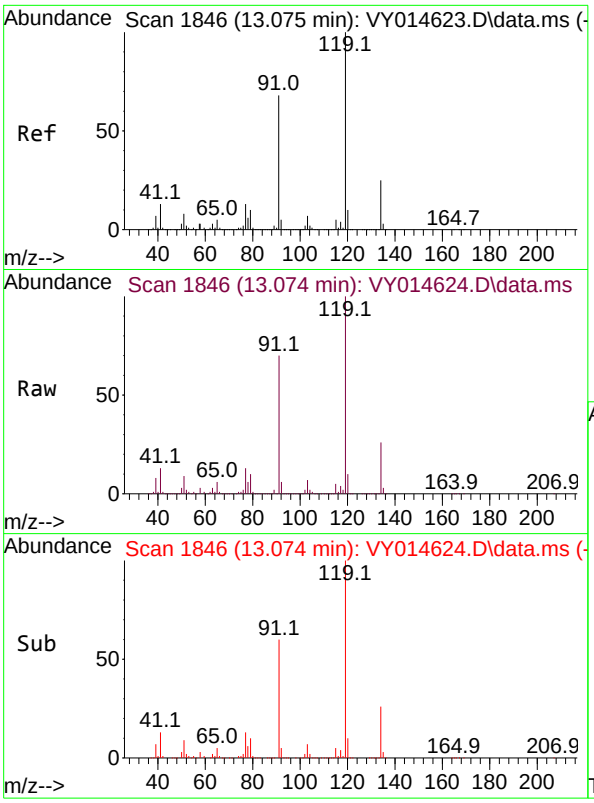


#82
4-Chlorotoluene
Concen: 104.125 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 91 Resp: 1336444

Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.2	51.6





#83
tert-Butylbenzene
Concen: 104.465 ug/l
RT: 13.074 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

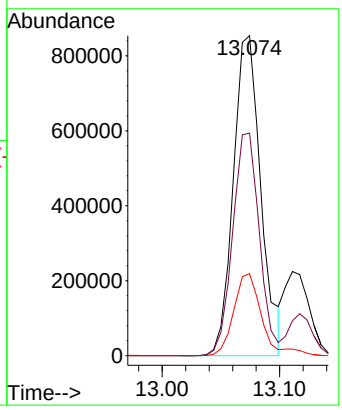
Tgt Ion:119 Resp: 138959

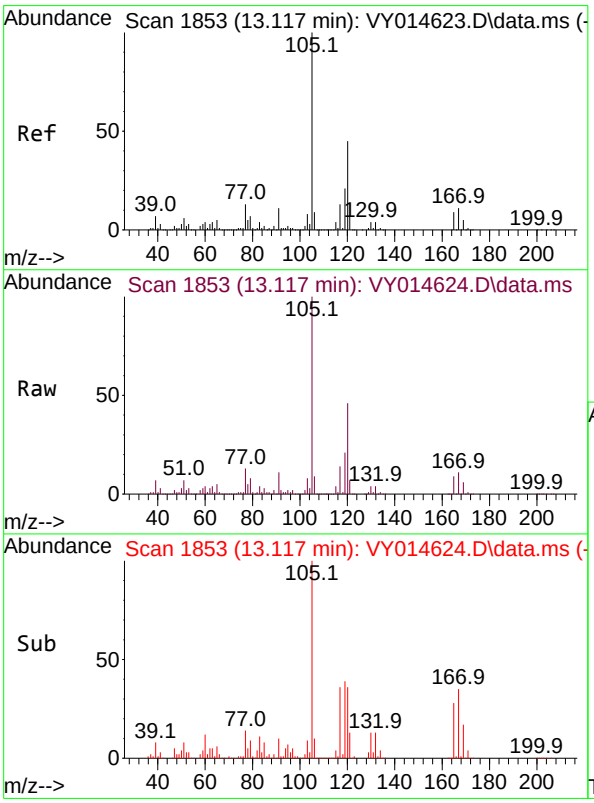
Ion	Ratio	Lower	Upper
119	100		
91	67.6	32.9	98.6
134	26.2	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

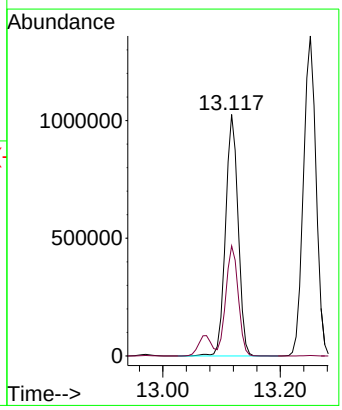


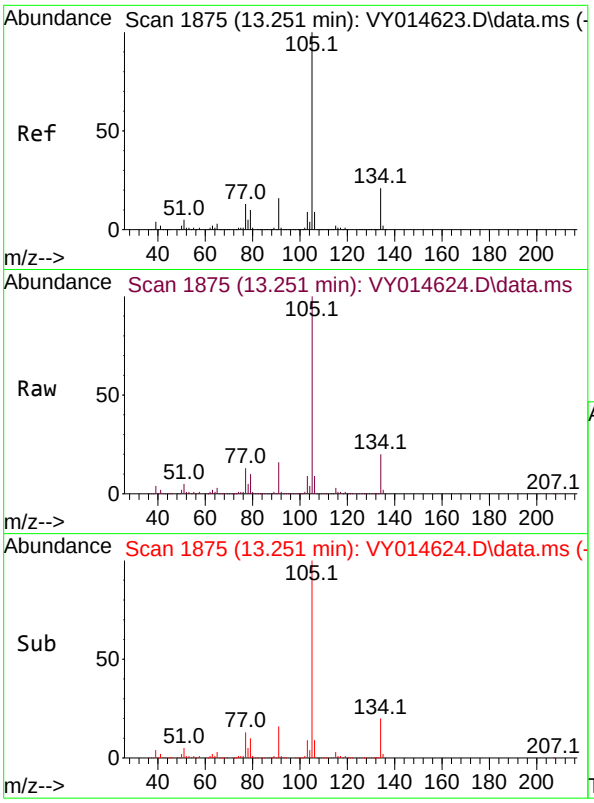


#84
1,2,4-Trimethylbenzene
Concen: 103.407 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:105 Resp: 1521782

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.2	66.6

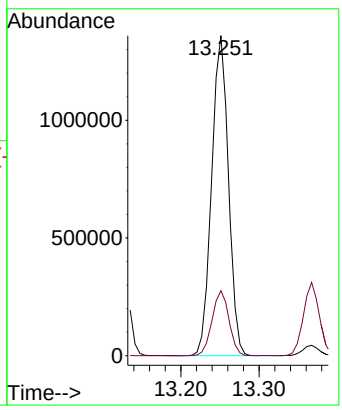




#85
sec-Butylbenzene
Concen: 103.770 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:105 Resp: 202489

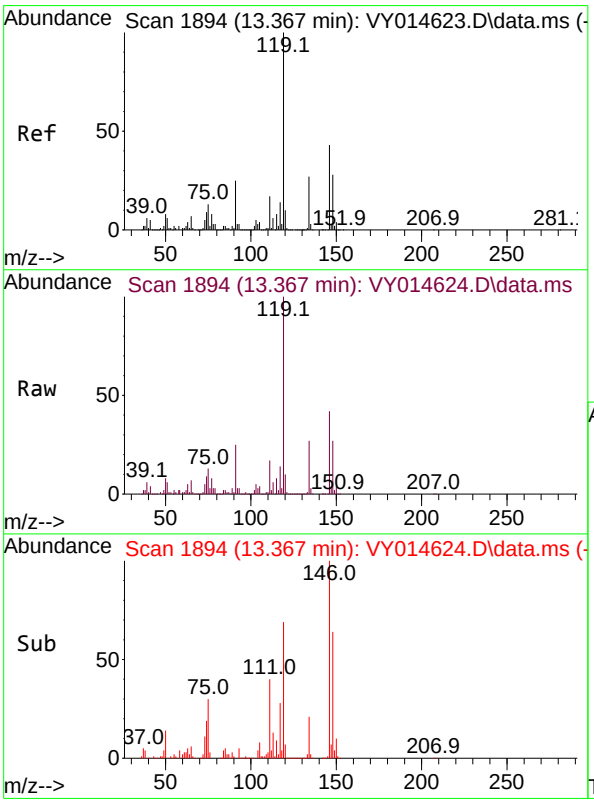
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

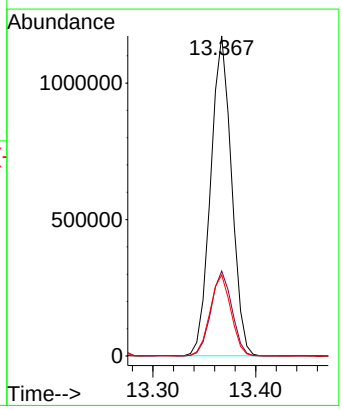
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

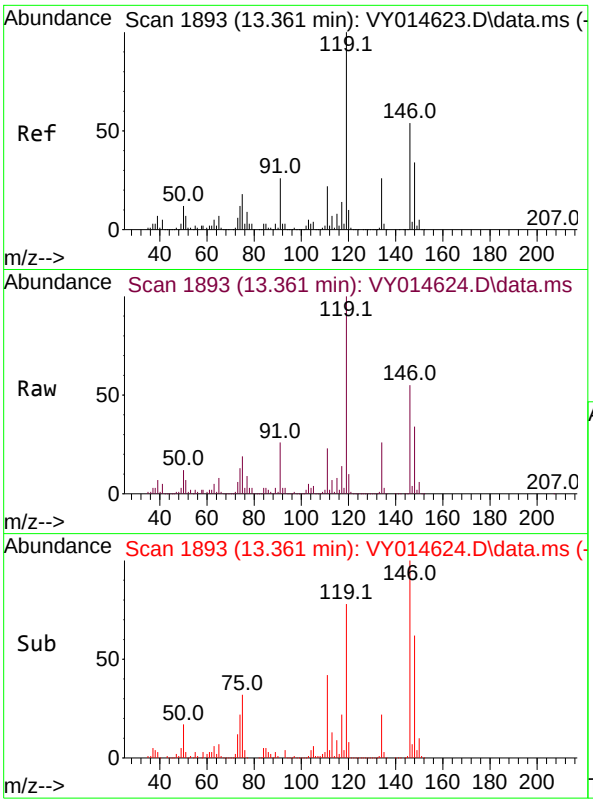


#86
p-Isopropyltoluene
Concen: 103.785 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:119 Resp: 1653501

Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.3	39.8
91	25.2	12.4	37.4

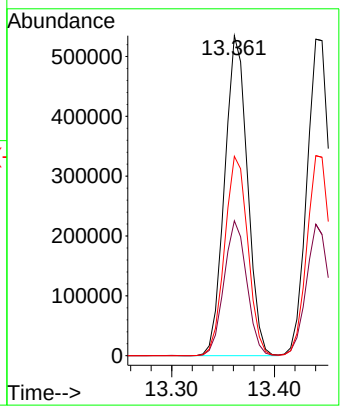




#87
1,3-Dichlorobenzene
Concen: 103.249 ug/l
RT: 13.361 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:146 Resp: 82362

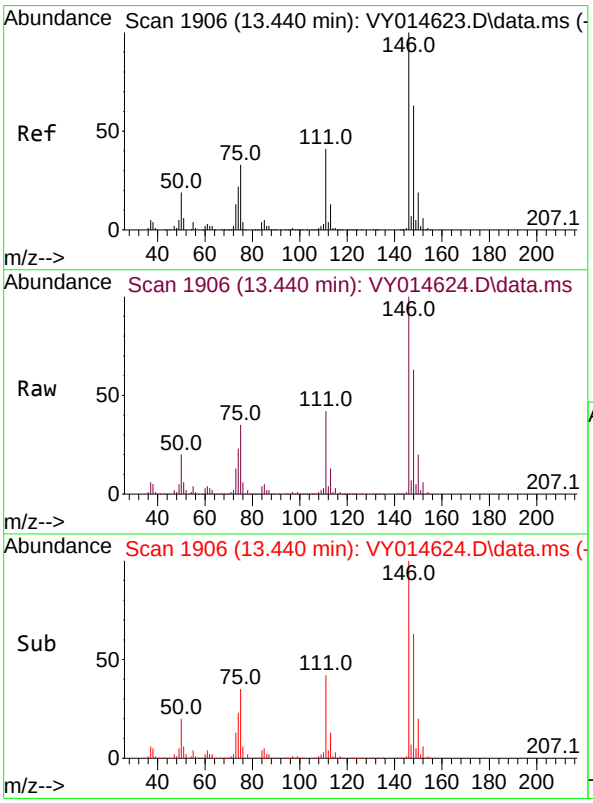
Ion	Ratio	Lower	Upper
146	100		
111	41.9	19.4	58.2
148	63.3	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

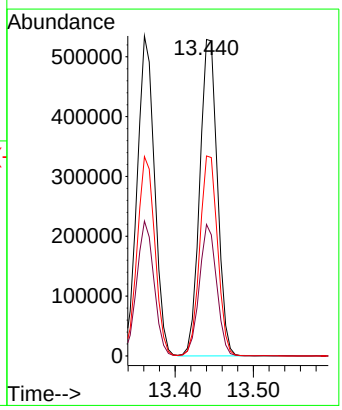
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

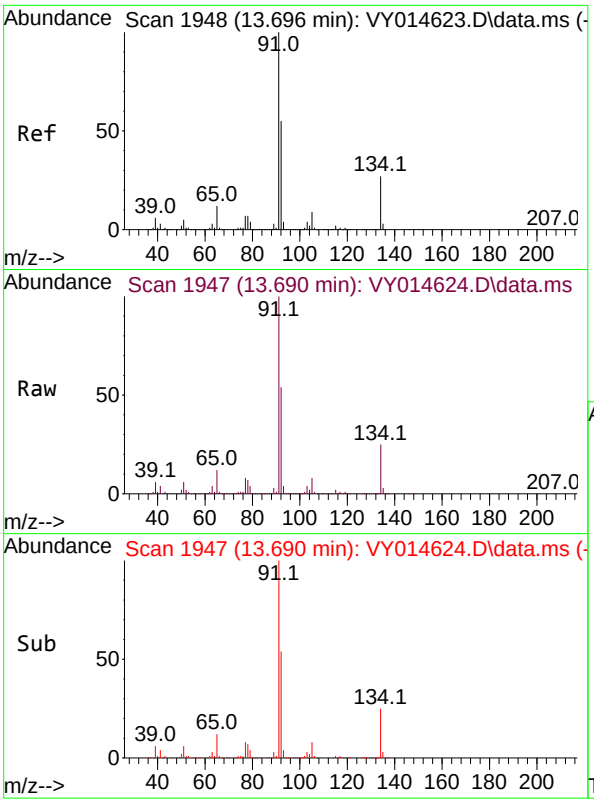


#88
1,4-Dichlorobenzene
Concen: 103.503 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:146 Resp: 827368

Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.9	56.7
148	63.6	32.1	96.5

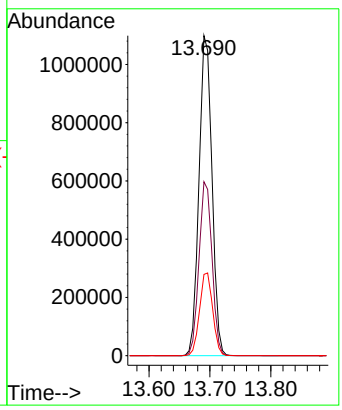




#89
n-Butylbenzene
Concen: 104.952 ug/l
RT: 13.690 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 91 Resp: 162677

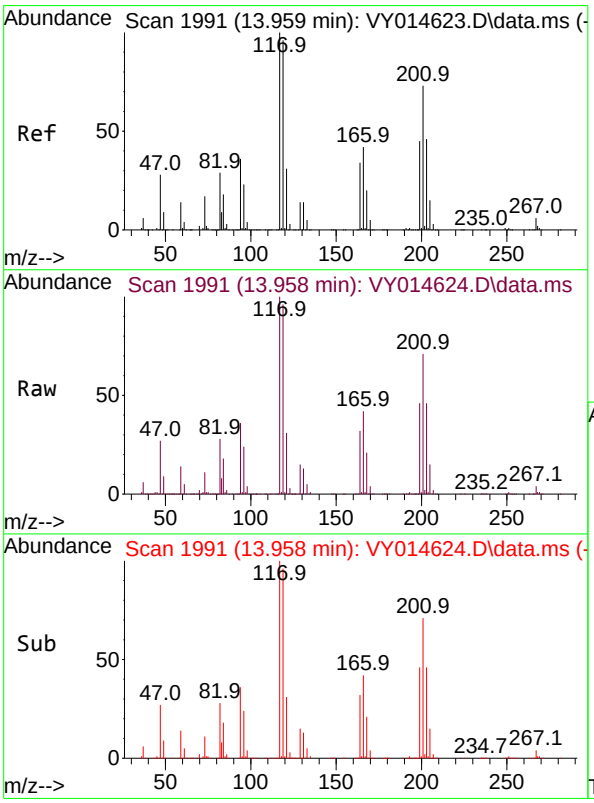
Ion	Ratio	Lower	Upper
91	100		
92	54.5	25.4	76.0
134	26.2	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

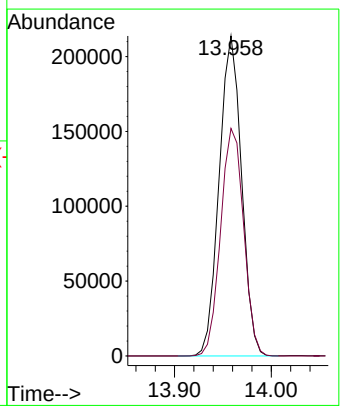
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

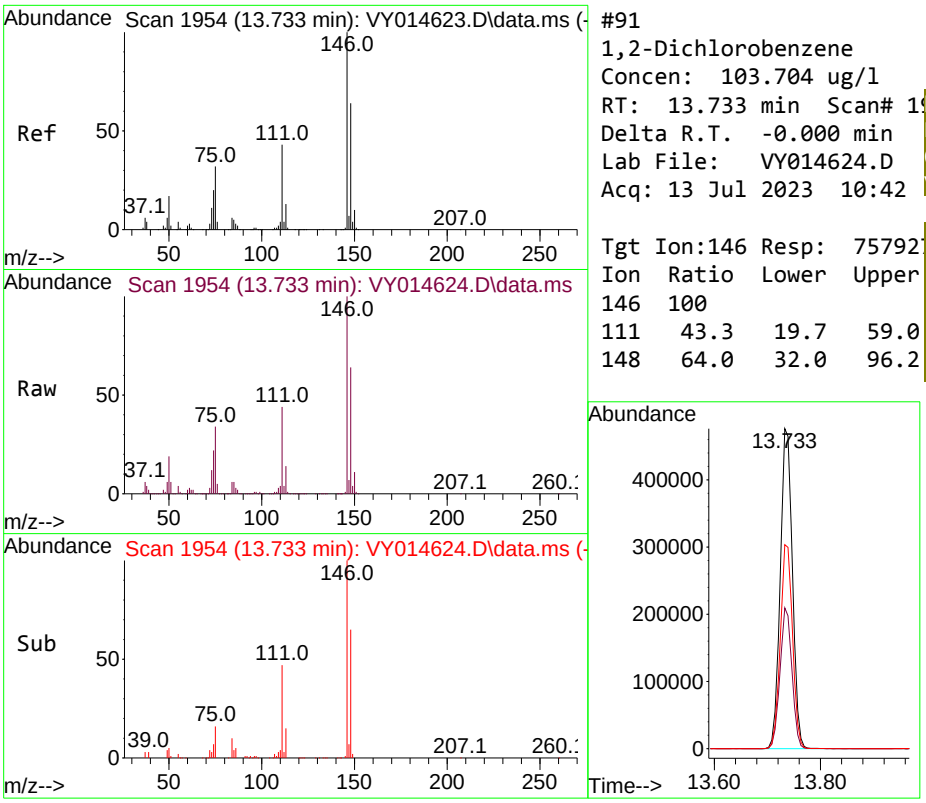


#90
Hexachloroethane
Concen: 104.861 ug/l
RT: 13.958 min Scan# 1991
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:117 Resp: 343148

Ion	Ratio	Lower	Upper
117	100		
201	73.1	41.6	124.8





#91
1,2-Dichlorobenzene
Concen: 103.704 ug/l
RT: 13.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

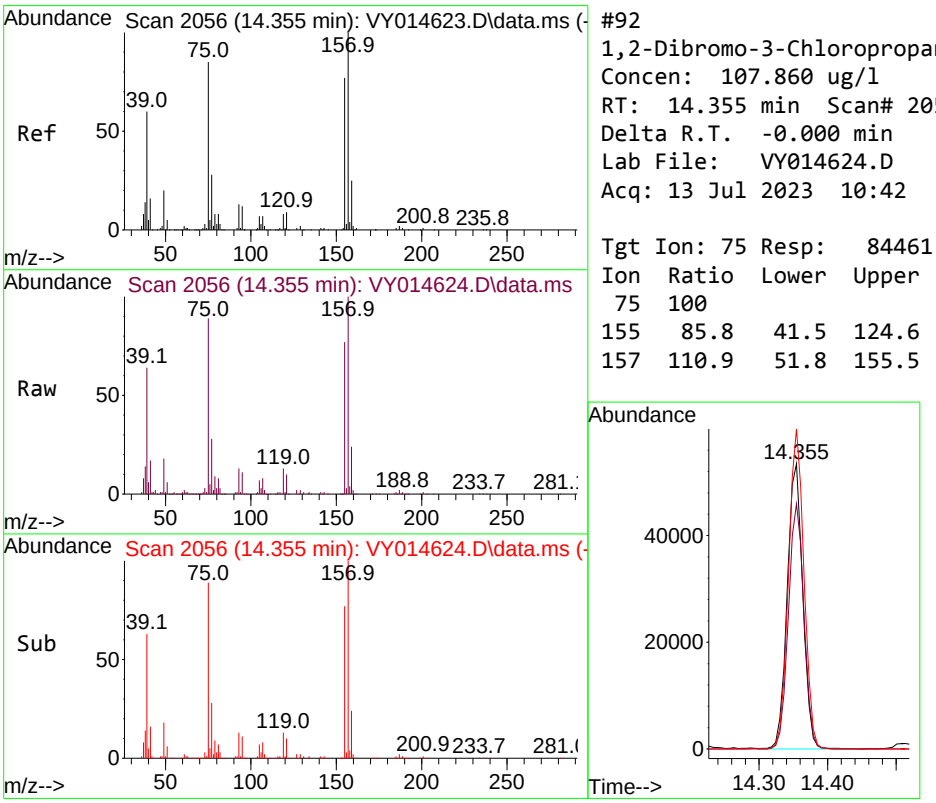
Tgt Ion:146 Resp: 75792

Ion	Ratio	Lower	Upper
146	100		
111	43.3	19.7	59.0
148	64.0	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

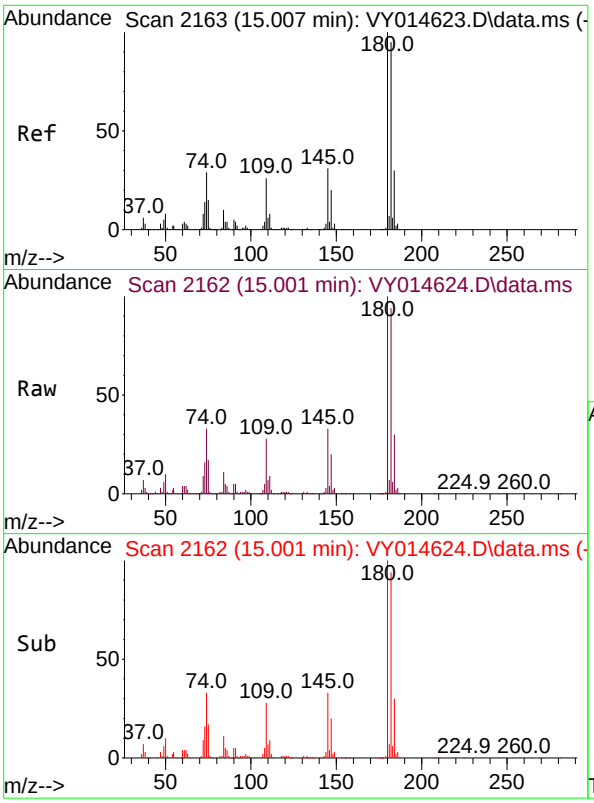
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#92
1,2-Dibromo-3-Chloropropane
Concen: 107.860 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion: 75 Resp: 84461

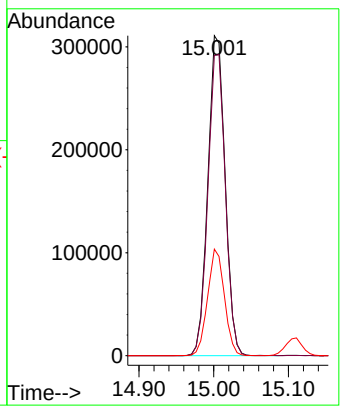
Ion	Ratio	Lower	Upper
75	100		
155	85.8	41.5	124.6
157	110.9	51.8	155.5



#93
1,2,4-Trichlorobenzene
Concen: 107.682 ug/l
RT: 15.001 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:180 Resp: 49958

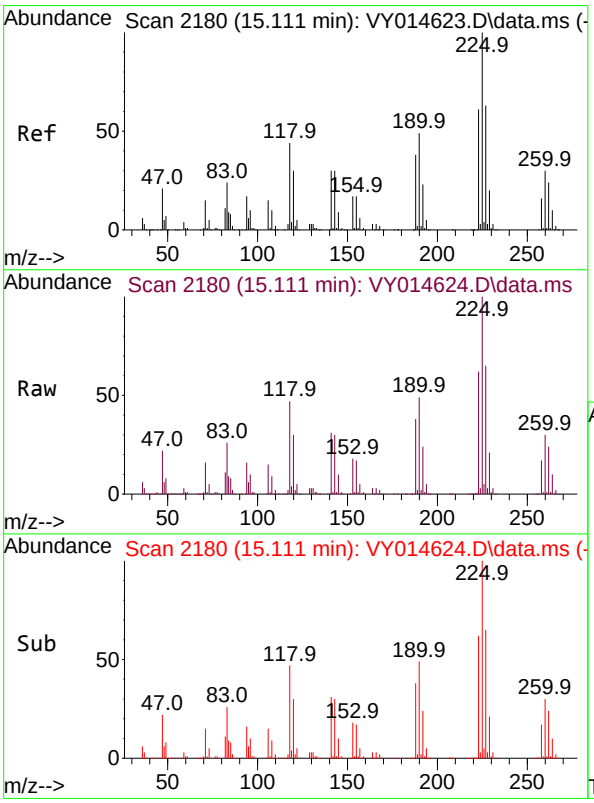
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.0	141.2
145	32.5	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

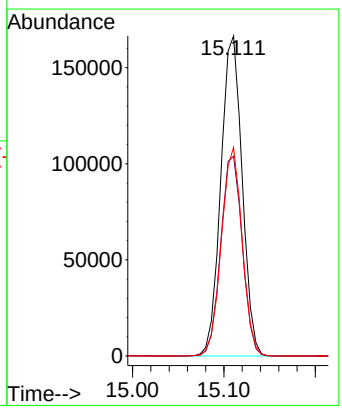
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

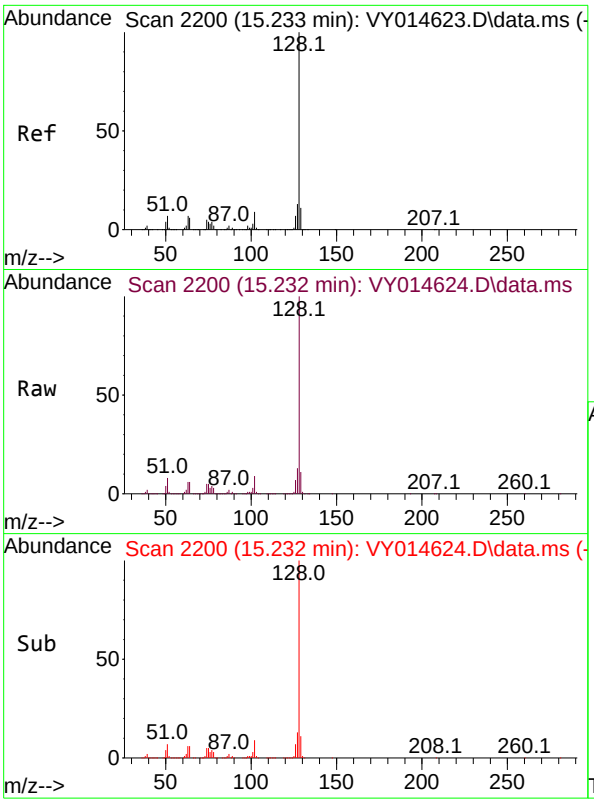


#94
Hexachlorobutadiene
Concen: 105.758 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:225 Resp: 269631

Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.9	95.9
227	63.7	33.0	98.9

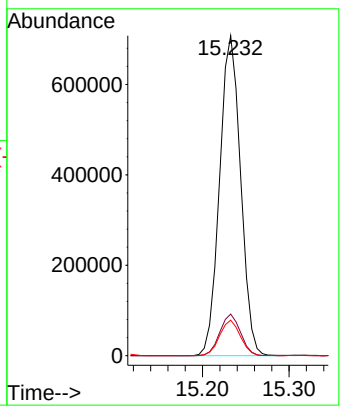




#95
Naphthalene
Concen: 110.436 ug/l
RT: 15.232 min Scan# 2
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:128 Resp: 119367

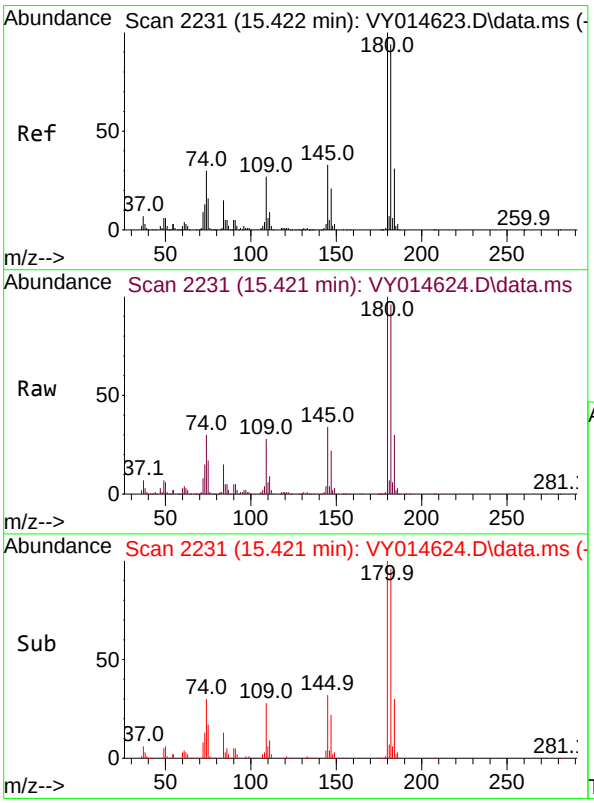
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

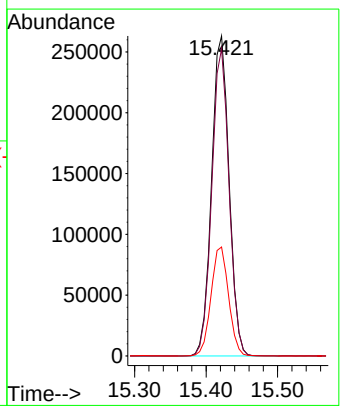
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 108.499 ug/l
RT: 15.421 min Scan# 2231
Delta R.T. -0.001 min
Lab File: VY014624.D
Acq: 13 Jul 2023 10:42

Tgt Ion:180 Resp: 447366

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.3	141.8
145	34.2	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014625.D
Acq On : 13 Jul 2023 11:05
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.783	168	348803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	577077	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	501847	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	236903	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	585307	147.256	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 294.520%#			
35) Dibromofluoromethane	7.710	113	535540	145.783	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 291.560%#			
50) Toluene-d8	10.179	98	1910162	141.039	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 282.080%#			
62) 4-Bromofluorobenzene	12.477	95	733073	141.163	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 282.320%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	387412	136.329	ug/l	98
3) Chloromethane	2.107	50	437684	137.016	ug/l	98
4) Vinyl Chloride	2.241	62	495491	138.790	ug/l	98
6) Chloroethane	2.765	64	301893	135.377	ug/l	97
7) Trichlorofluoromethane	3.107	101	857323	142.984	ug/l	99
8) Diethyl Ether	3.521	74	321575	144.145	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.881	101	533697	145.220	ug/l	95
10) Methyl Iodide	4.076	142	593099	147.392	ug/l	96
11) Tert butyl alcohol	4.954	59	500360	748.646	ug/l #	85
12) 1,1-Dichloroethene	3.857	96	493499	143.676	ug/l	93
13) Acrolein	3.716	56	391142	941.515	ug/l	100
14) Allyl chloride	4.466	41	875287	143.520	ug/l	96
15) Acrylonitrile	5.155	53	901923	733.149	ug/l	99
16) Acetone	3.942	43	858844	681.867	ug/l	93
17) Carbon Disulfide	4.180	76	1367968	139.109	ug/l	99
18) Methyl Acetate	4.466	43	721655	149.301	ug/l	95
19) Methyl tert-butyl Ether	5.210	73	1629727	146.064	ug/l	99
20) Methylene Chloride	4.704	84	565060	146.224	ug/l	93
21) trans-1,2-Dichloroethene	5.204	96	551688	141.532	ug/l	99
22) Diisopropyl ether	6.112	45	1810790	146.040	ug/l	92
23) Vinyl Acetate	6.051	43	5446499	734.023	ug/l	96
24) 1,1-Dichloroethane	6.003	63	1025033	144.480	ug/l	97
25) 2-Butanone	6.978	43	1298937	704.906	ug/l	95
26) 2,2-Dichloropropane	6.972	77	938034	138.730	ug/l	99
27) cis-1,2-Dichloroethene	6.978	96	646763	142.546	ug/l	97
28) Bromochloromethane	7.326	49	434633	142.245	ug/l	98
29) Tetrahydrofuran	7.338	42	835039	735.940	ug/l	95
30) Chloroform	7.496	83	1049162	143.406	ug/l	95
31) Cyclohexane	7.777	56	886109	134.297	ug/l	95
32) 1,1,1-Trichloroethane	7.691	97	959638	145.741	ug/l	99
36) 1,1-Dichloropropene	7.911	75	793389	144.419	ug/l	99
37) Ethyl Acetate	7.069	43	559843	148.014	ug/l #	95
38) Carbon Tetrachloride	7.893	117	852181	146.744	ug/l	98
39) Methylcyclohexane	9.179	83	1020817	142.628	ug/l	97
40) Benzene	8.155	78	2219783	142.073	ug/l	100
41) Methacrylonitrile	7.313	41	299074m	149.523	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014625.D
Acq On : 13 Jul 2023 11:05
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-Dichloroethane	8.234	62	731640	147.873	ug/l		95
43) Isopropyl Acetate	8.270	43	1066678	148.046	ug/l		97
44) Trichloroethene	8.935	130	624635	142.887	ug/l		99
45) 1,2-Dichloropropane	9.209	63	583415	142.999	ug/l		98
46) Dibromomethane	9.301	93	356062	143.861	ug/l		95
47) Bromodichloromethane	9.490	83	848301	145.421	ug/l		99
48) Methyl methacrylate	9.289	41	483717	149.200	ug/l		94
49) 1,4-Dioxane	9.295	88	119756	2967.364	ug/l	#	45
51) 4-Methyl-2-Pentanone	10.069	43	2731477	722.043	ug/l		94
52) Toluene	10.240	92	1407343	140.763	ug/l		93
53) t-1,3-Dichloropropene	10.459	75	929558	145.680	ug/l		99
54) cis-1,3-Dichloropropene	9.923	75	997006	143.683	ug/l		98
55) 1,1,2-Trichloroethane	10.642	97	501174	145.367	ug/l		97
56) Ethyl methacrylate	10.508	69	772495	146.751	ug/l		94
57) 1,3-Dichloropropane	10.788	76	855880	143.930	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.776	63	1745270	711.567	ug/l		95
59) 2-Hexanone	10.831	43	1995130	723.199	ug/l		93
60) Dibromochloromethane	10.983	129	614305	145.327	ug/l		100
61) 1,2-Dibromoethane	11.087	107	497034	144.513	ug/l		100
64) Tetrachloroethene	10.715	164	546037	135.286	ug/l		98
65) Chlorobenzene	11.514	112	1528763	142.952	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	575589	142.749	ug/l		99
67) Ethyl Benzene	11.587	91	2712251	140.469	ug/l		98
68) m/p-Xylenes	11.703	106	2075870	281.644	ug/l		96
69) o-Xylene	12.026	106	1014426	141.305	ug/l		99
70) Styrene	12.038	104	1699869	140.490	ug/l		99
71) Bromoform	12.203	173	398537	145.817	ug/l	#	100
73) Isopropylbenzene	12.325	105	2680365	144.497	ug/l		99
74) N-amyl acetate	12.142	43	948855	152.731	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.581	83	628884	148.668	ug/l		99
76) 1,2,3-Trichloropropane	12.629	75	440574m	145.322	ug/l		
77) Bromobenzene	12.605	156	619539	146.316	ug/l		92
78) n-propylbenzene	12.666	91	3208361	143.535	ug/l		99
79) 2-Chlorotoluene	12.751	91	1873221	145.497	ug/l		98
80) 1,3,5-Trimethylbenzene	12.806	105	2226072	143.695	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.373	75	235974	152.702	ug/l		95
82) 4-Chlorotoluene	12.849	91	1919921	144.795	ug/l		98
83) tert-Butylbenzene	13.068	119	1997624	145.366	ug/l		98
84) 1,2,4-Trimethylbenzene	13.117	105	2171313	142.820	ug/l		99
85) sec-Butylbenzene	13.251	105	2882320	142.981	ug/l		100
86) p-Isopropyltoluene	13.367	119	2335986	141.928	ug/l		99
87) 1,3-Dichlorobenzene	13.361	146	1176551	142.769	ug/l		98
88) 1,4-Dichlorobenzene	13.440	146	1190339	144.142	ug/l		98
89) n-Butylbenzene	13.690	91	2303273	143.838	ug/l		95
90) Hexachloroethane	13.958	117	494909	146.394	ug/l		89
91) 1,2-Dichlorobenzene	13.733	146	1092720	144.725	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.355	75	122749	151.735	ug/l		96
93) 1,2,4-Trichlorobenzene	15.007	180	728944	152.089	ug/l		98
94) Hexachlorobutadiene	15.111	225	387455	147.106	ug/l		98
95) Naphthalene	15.233	128	1747562	156.503	ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	657243	154.296	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014625.D
Acq On : 13 Jul 2023 11:05
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:00:51 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

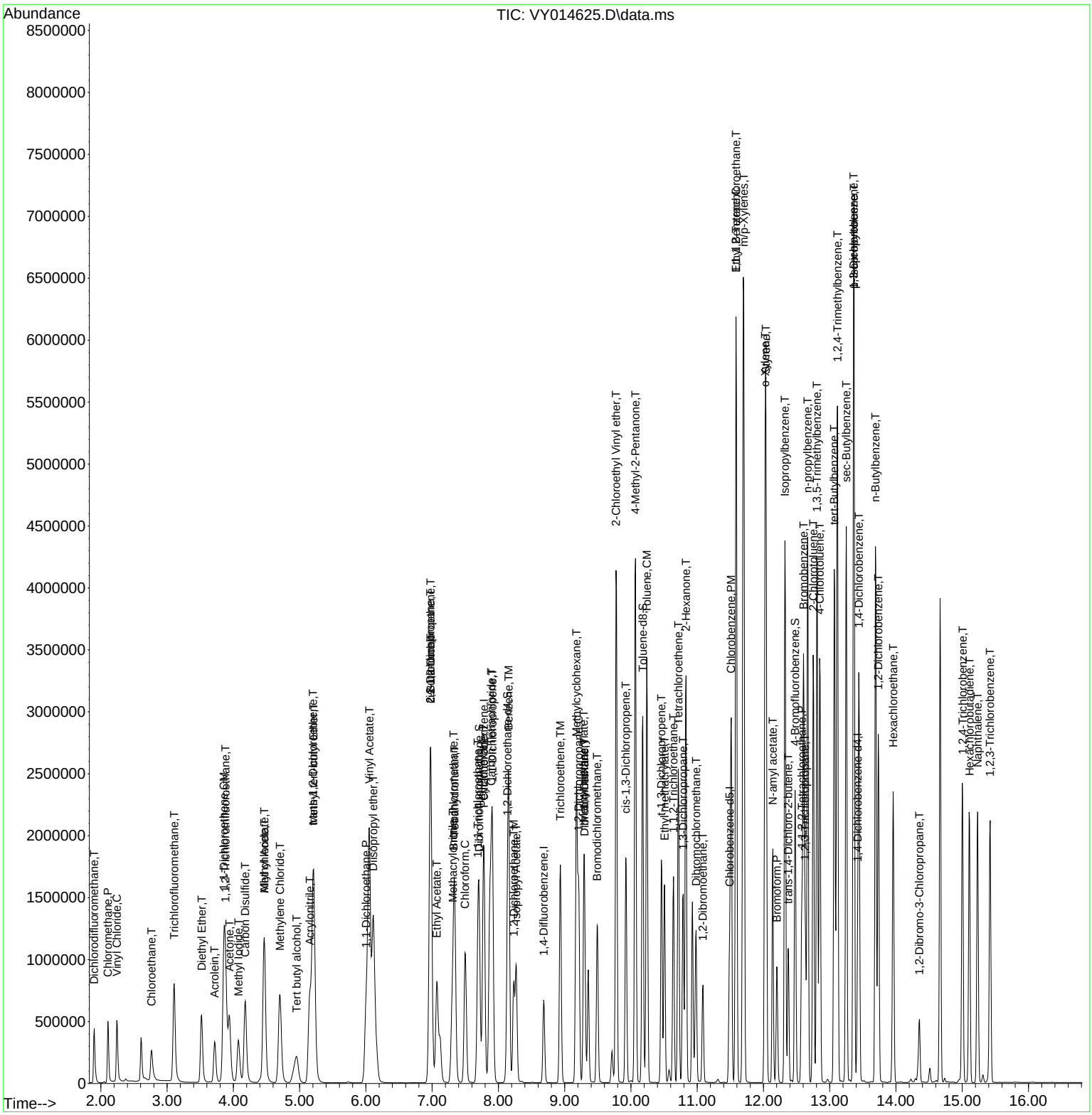
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Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

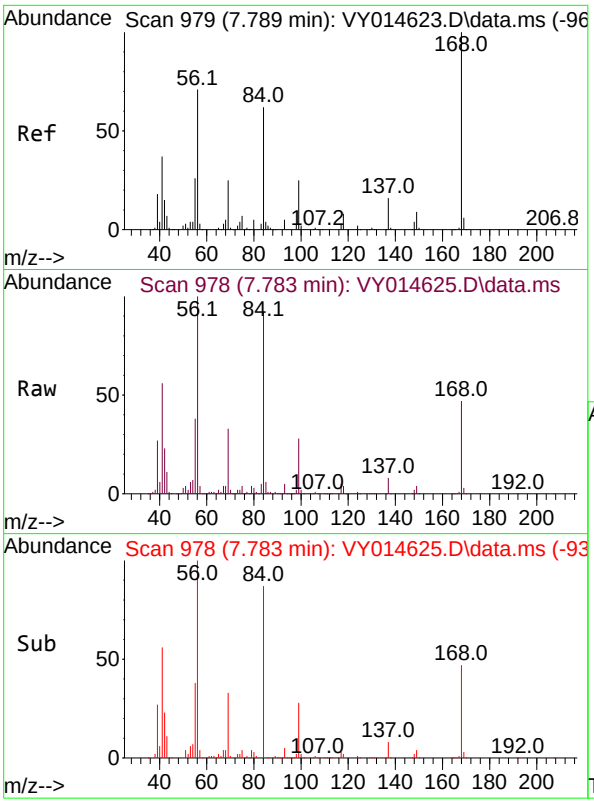
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Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

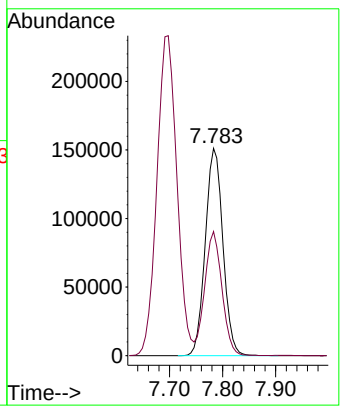




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:168 Resp: 34880

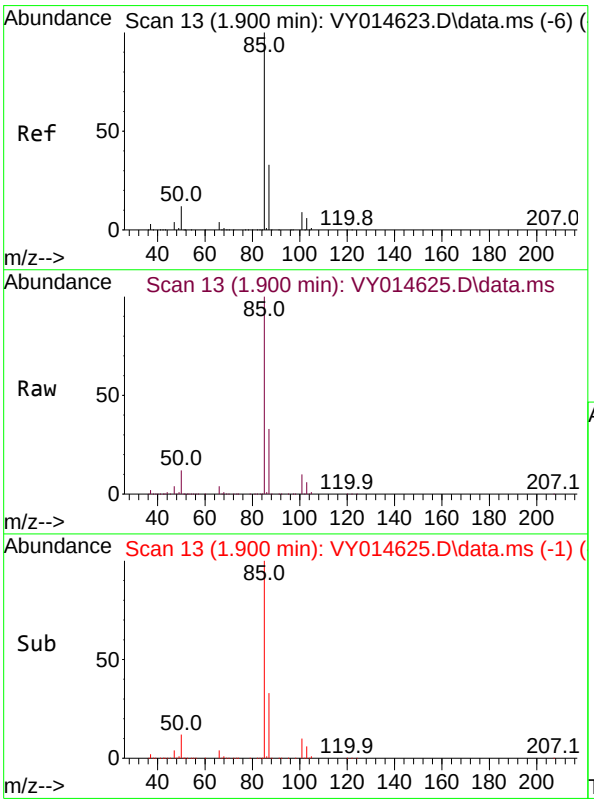
Ion	Ratio	Lower	Upper
168	100		
99	59.7	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

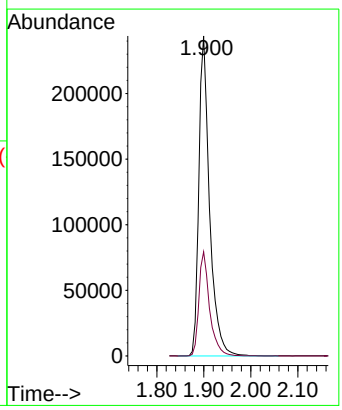
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

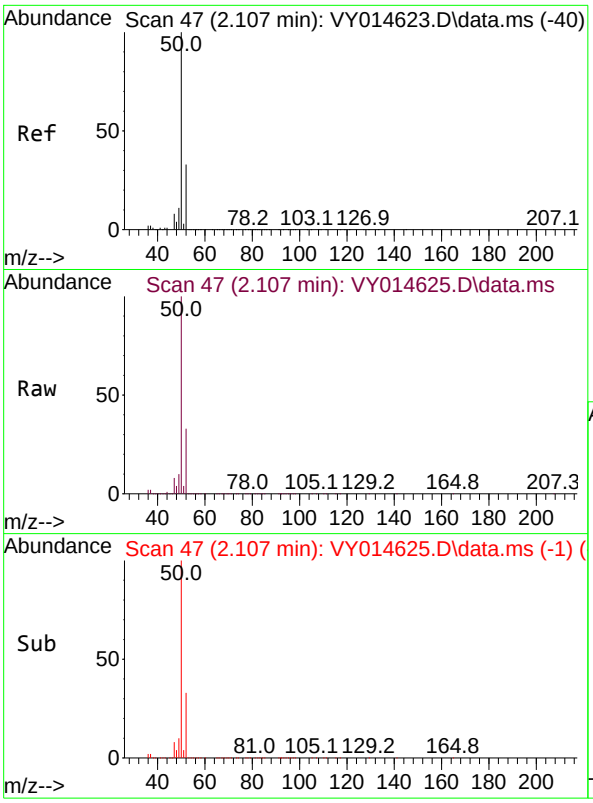


#2
Dichlorodifluoromethane
Concen: 136.329 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 85 Resp: 387412

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.6	46.8

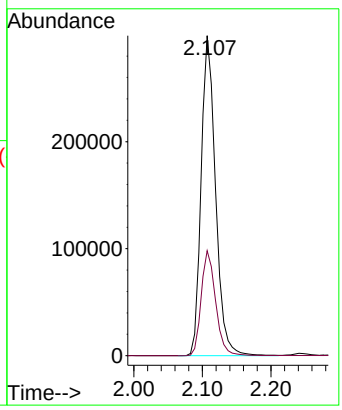




#3
Chloromethane
Concen: 137.016 ug/l
RT: 2.107 min Scan# 4
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 50 Resp: 43768

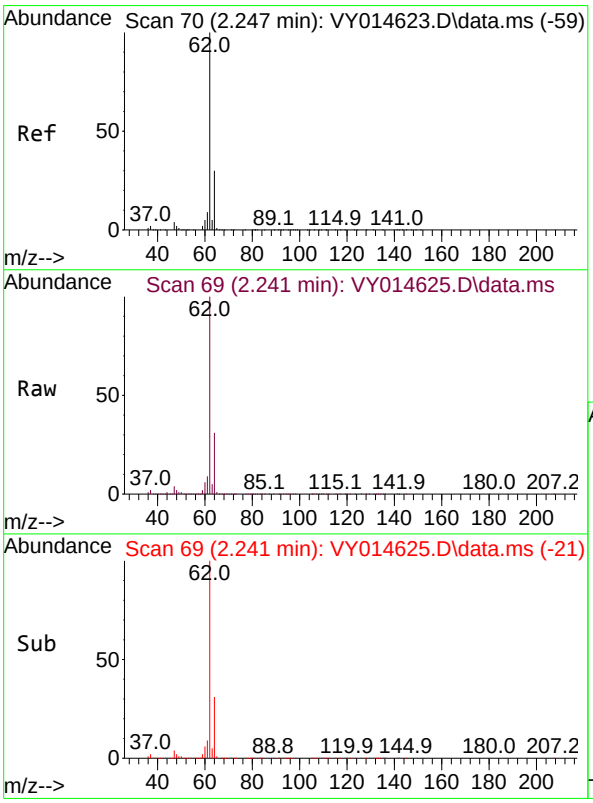
Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

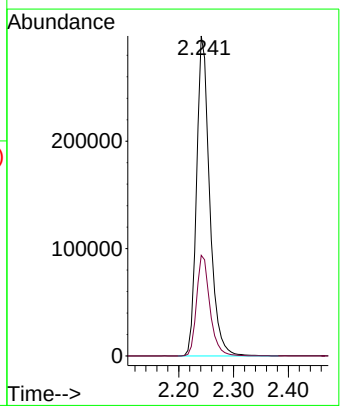
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

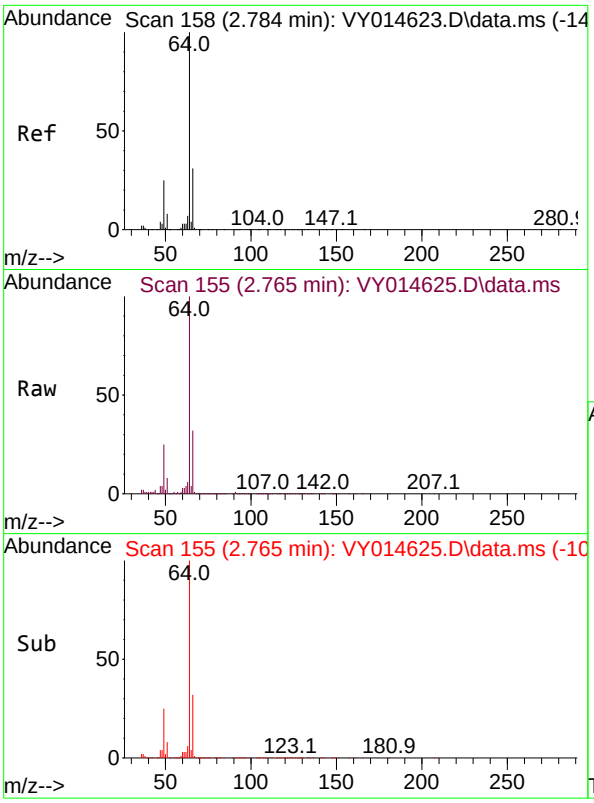


#4
Vinyl Chloride
Concen: 138.790 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 62 Resp: 495491

Ion	Ratio	Lower	Upper
62	100		
64	31.4	24.3	36.5

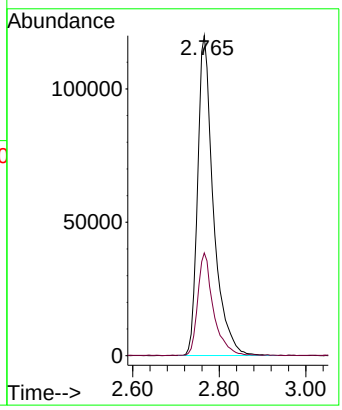




#6
Chloroethane
Concen: 135.377 ug/l
RT: 2.765 min Scan# 1
Delta R.T. -0.019 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 64 Resp: 30189

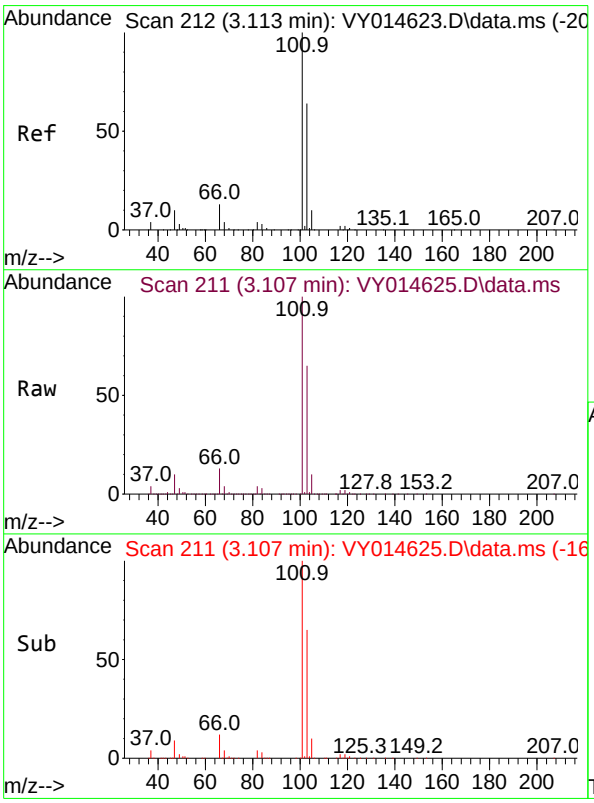
Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

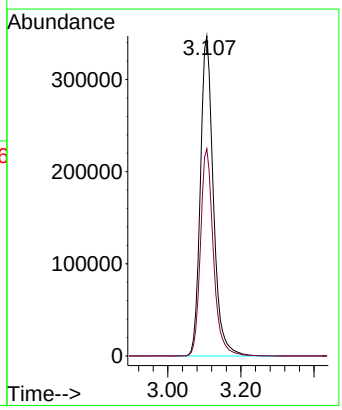
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

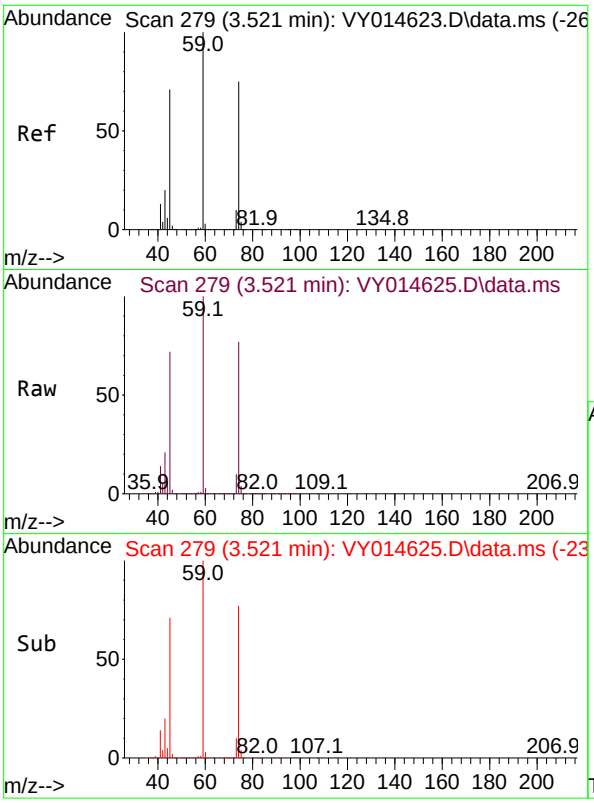


#7
Trichlorofluoromethane
Concen: 142.984 ug/l
RT: 3.107 min Scan# 211
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:101 Resp: 857323

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.4	77.0





#8
Diethyl Ether
Concen: 144.145 ug/l
RT: 3.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

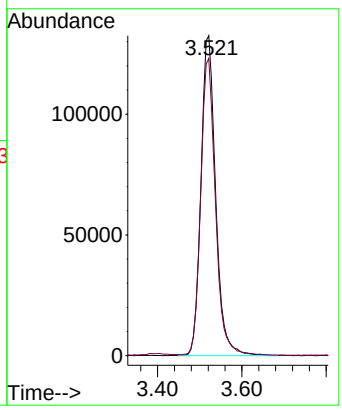
Tgt Ion: 74 Resp: 32157

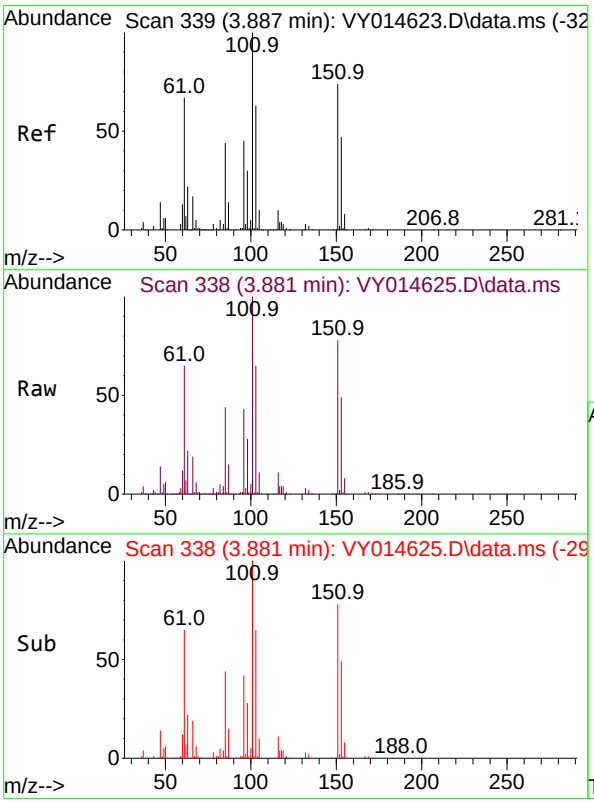
Ion	Ratio	Lower	Upper
74	100		
45	93.1	51.5	154.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

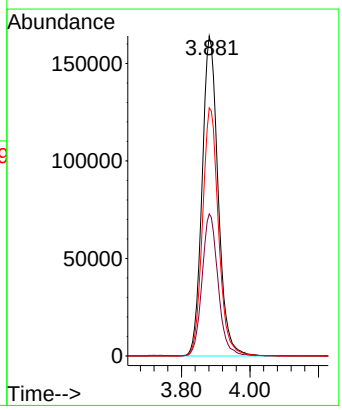


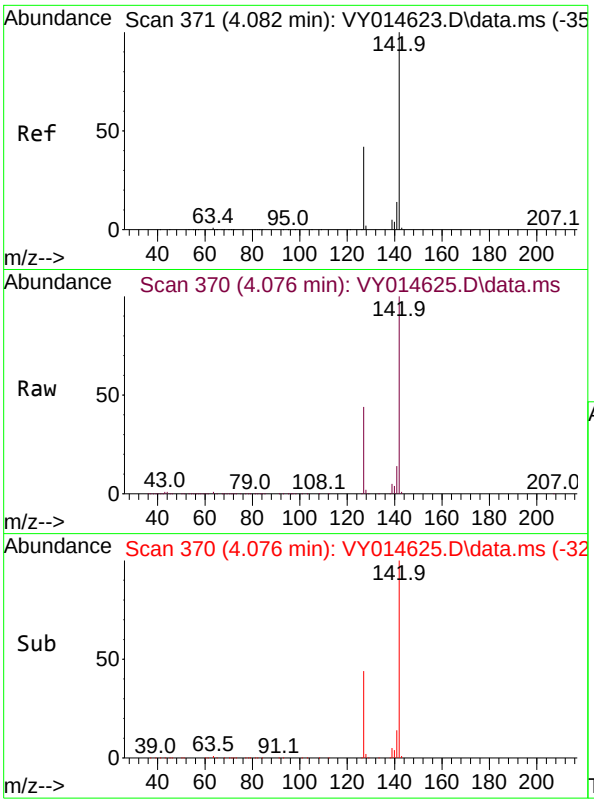


#9
1,1,2-Trichlorotrifluoroethane
Concen: 145.220 ug/l
RT: 3.881 min Scan# 338
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:101 Resp: 533697

Ion	Ratio	Lower	Upper
101	100		
85	44.3	36.6	55.0
151	77.4	67.0	100.6

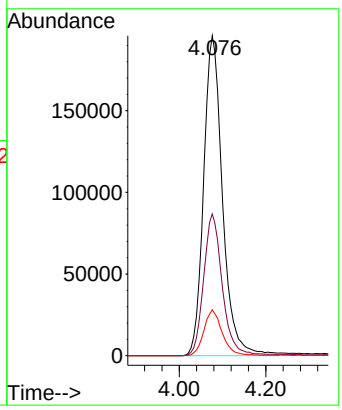




#10
Methyl Iodide
Concen: 147.392 ug/l
RT: 4.076 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:142 Resp: 59309

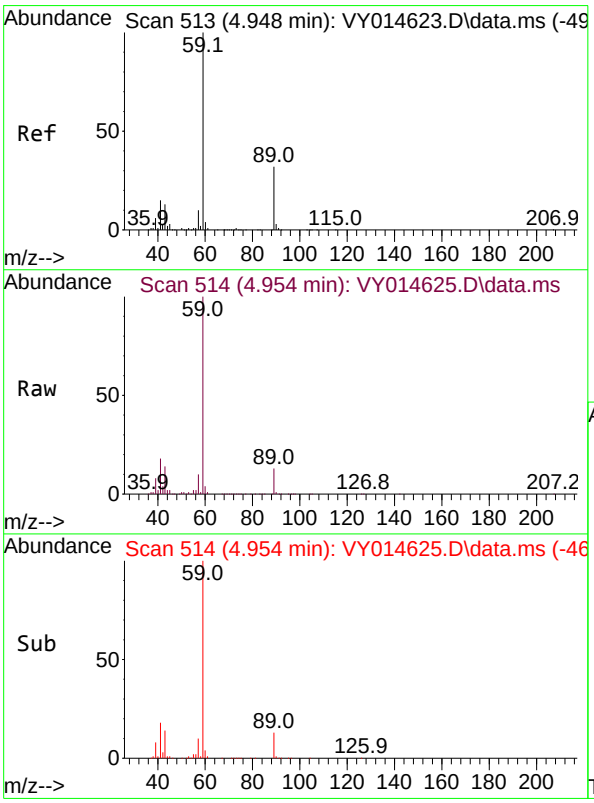
Ion	Ratio	Lower	Upper
142	100		
127	43.9	37.6	56.4
141	14.0	11.8	17.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

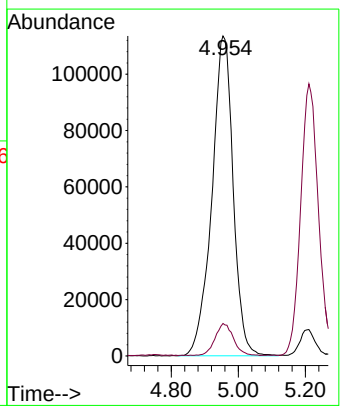
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

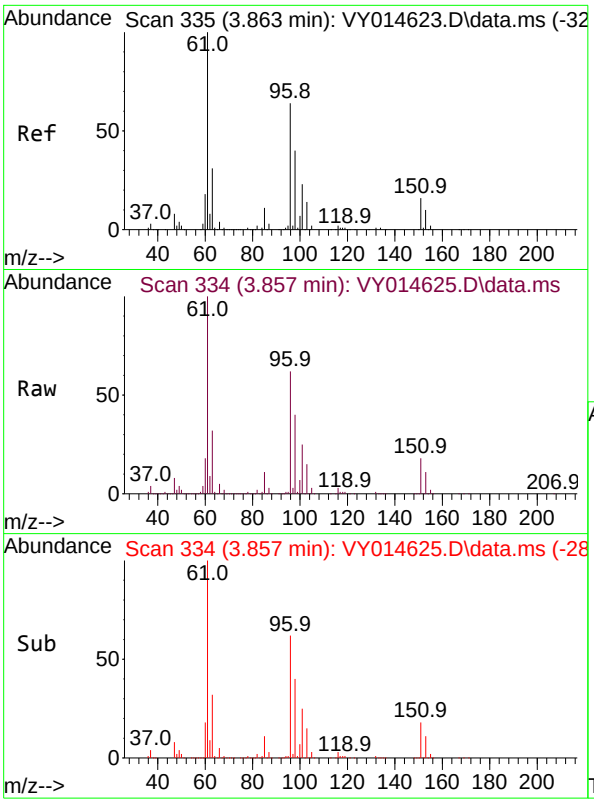


#11
Tert butyl alcohol
Concen: 748.646 ug/l
RT: 4.954 min Scan# 514
Delta R.T. 0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 59 Resp: 500360

Ion	Ratio	Lower	Upper
59	100		
57	8.6	3.0	4.4#

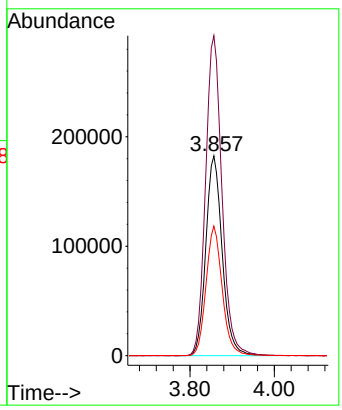




#12
1,1-Dichloroethene
Concen: 143.676 ug/l
RT: 3.857 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 96 Resp: 49349

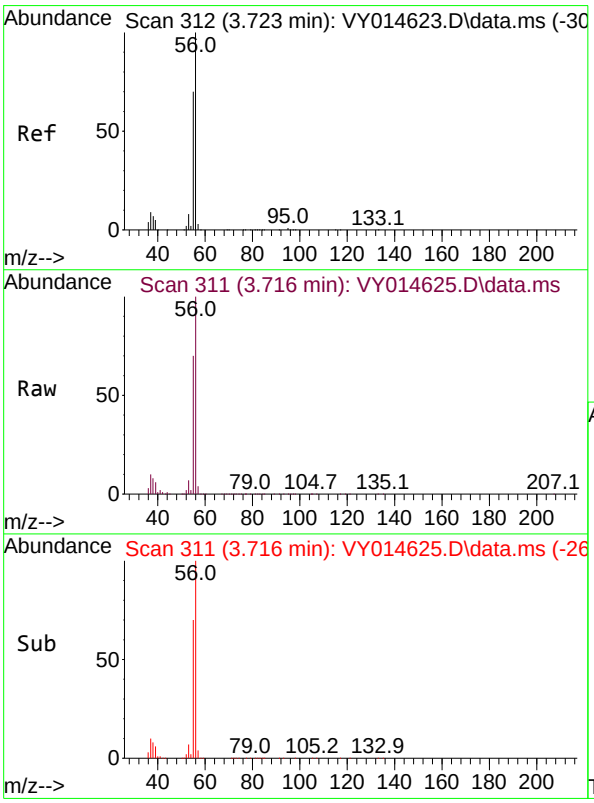
Ion	Ratio	Lower	Upper
96	100		
61	160.2	136.4	204.6
98	64.8	49.4	74.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

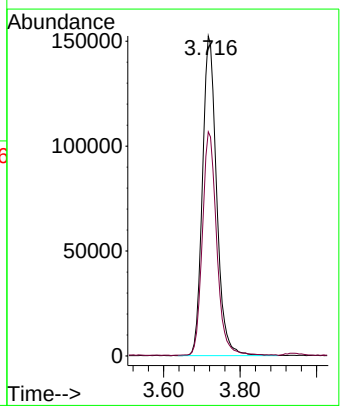
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

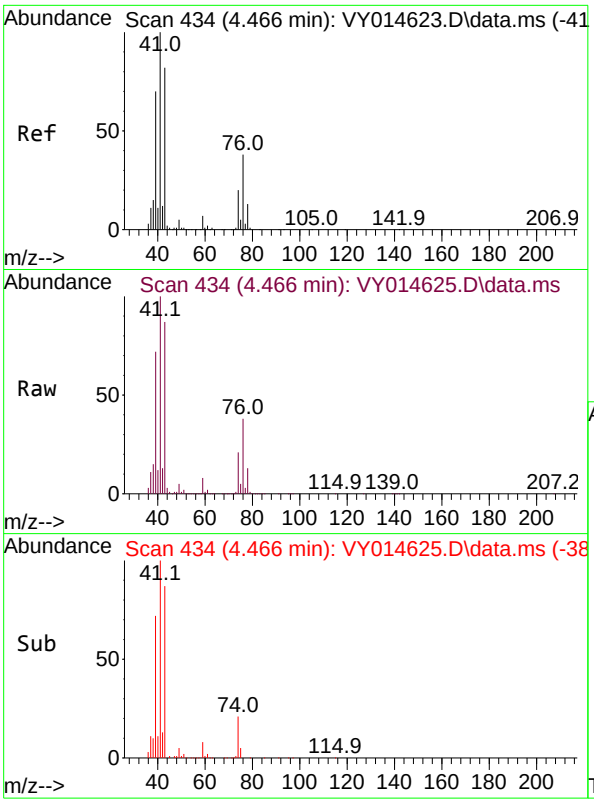


#13
Acrolein
Concen: 941.515 ug/l
RT: 3.716 min Scan# 311
Delta R.T. -0.007 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 56 Resp: 391142

Ion	Ratio	Lower	Upper
56	100		
55	70.9	57.0	85.4

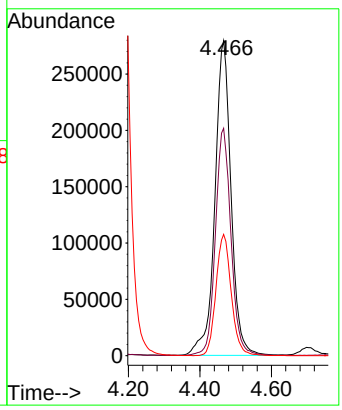




#14
Allyl chloride
Concen: 143.520 ug/l
RT: 4.466 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 41 Resp: 87528

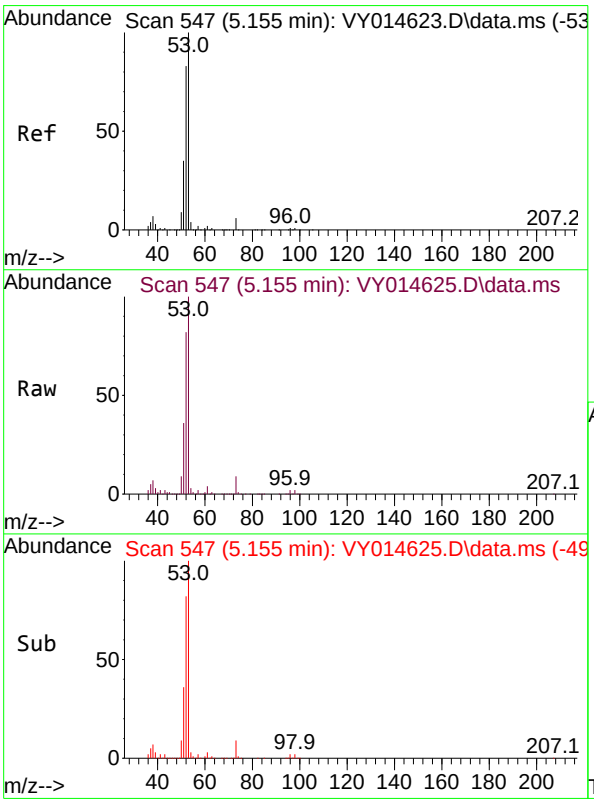
Ion	Ratio	Lower	Upper
41	100		
39	69.5	58.0	87.0
76	36.6	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

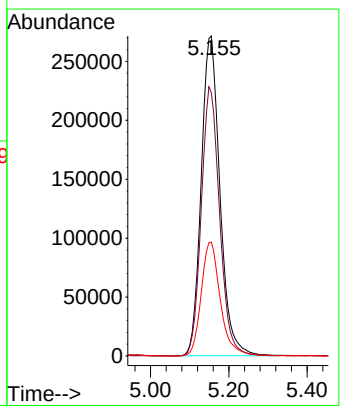
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

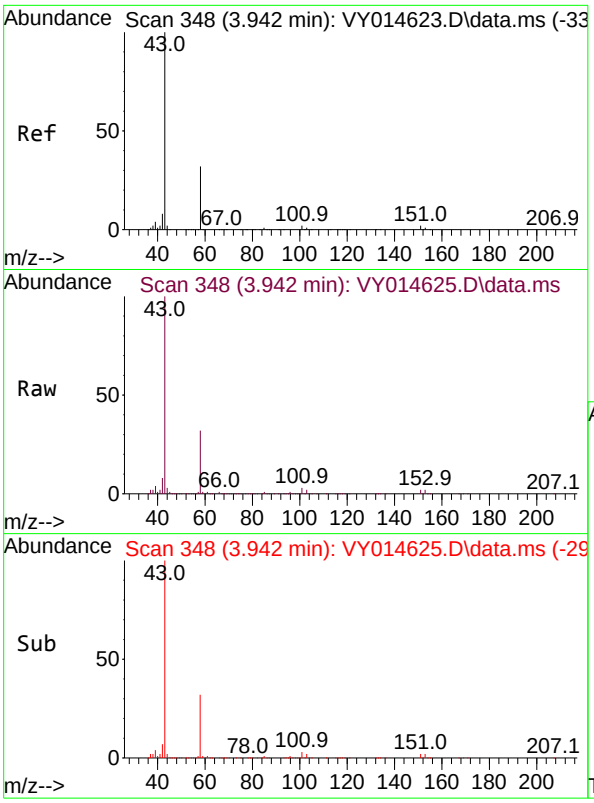


#15
Acrylonitrile
Concen: 733.149 ug/l
RT: 5.155 min Scan# 547
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 53 Resp: 901923

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.9	100.3
51	36.4	29.8	44.6





#16
Acetone
Concen: 681.867 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

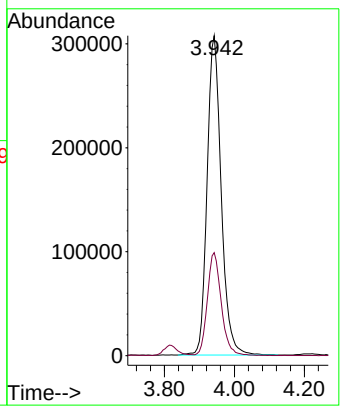
Tgt Ion: 43 Resp: 85884

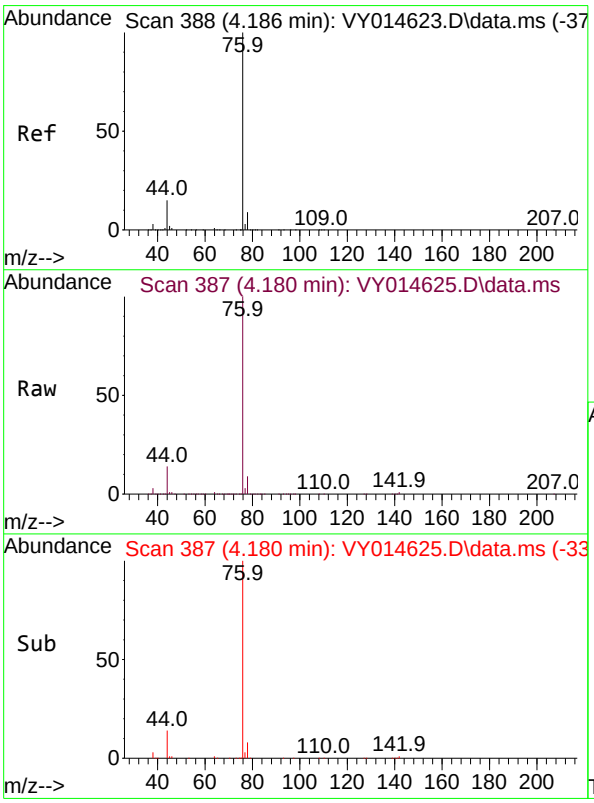
Ion	Ratio	Lower	Upper
43	100		
58	32.2	22.7	34.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

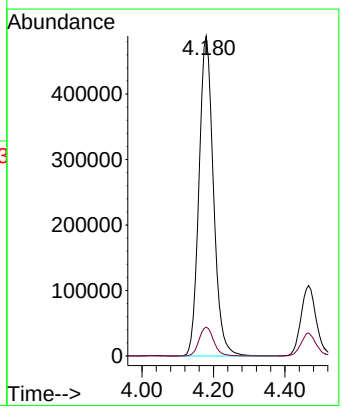


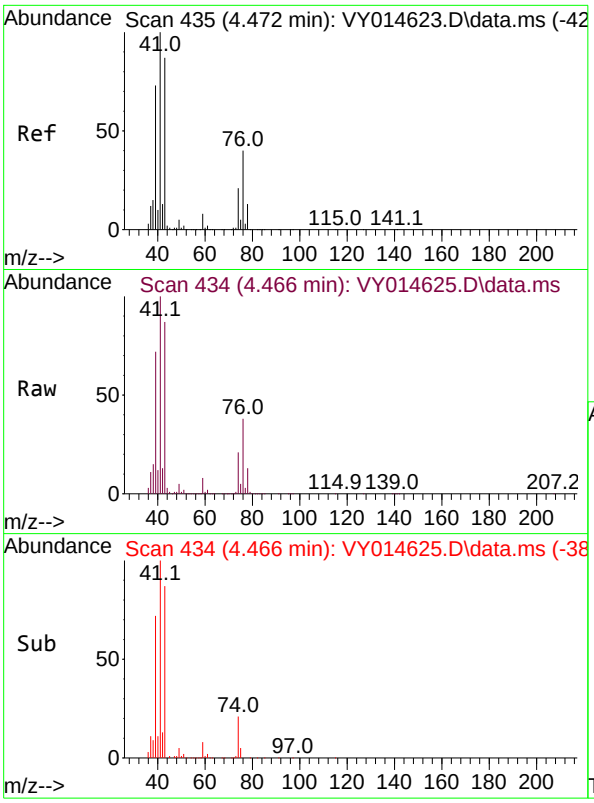


#17
Carbon Disulfide
Concen: 139.109 ug/l
RT: 4.180 min Scan# 387
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 76 Resp: 1367968

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4





#18
Methyl Acetate
Concen: 149.301 ug/l
RT: 4.466 min Scan# 4
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

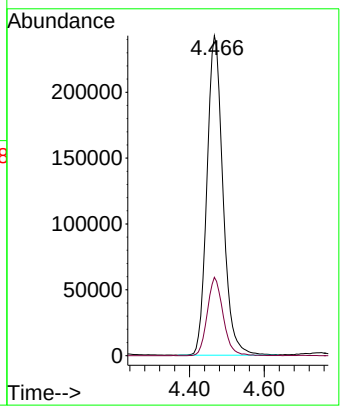
Tgt Ion: 43 Resp: 72165

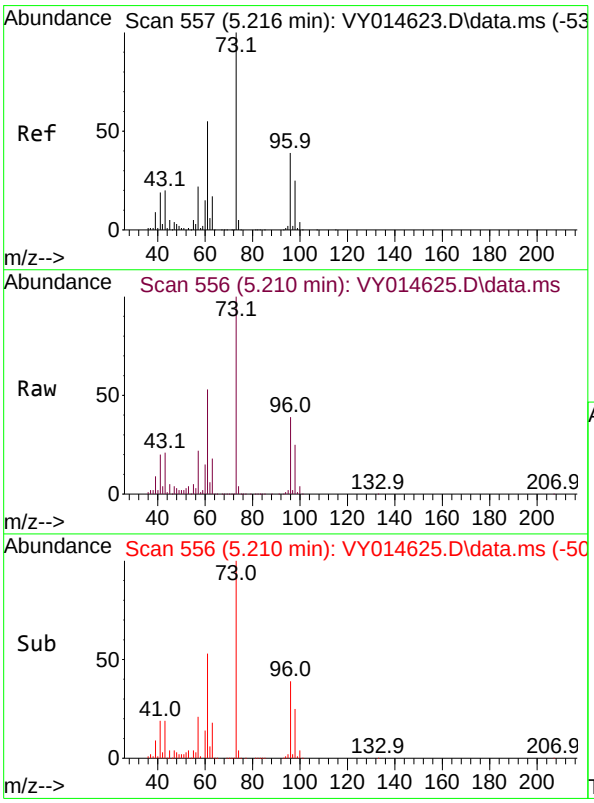
Ion	Ratio	Lower	Upper
43	100		
74	24.2	17.4	26.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

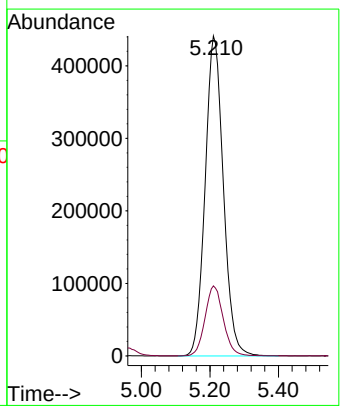


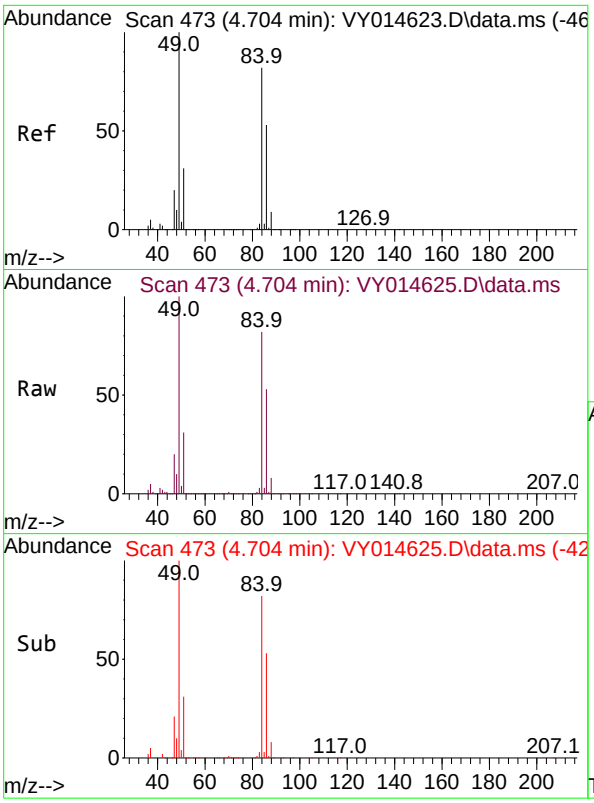


#19
Methyl tert-butyl Ether
Concen: 146.064 ug/l
RT: 5.210 min Scan# 556
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 73 Resp: 1629727

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.3	25.9

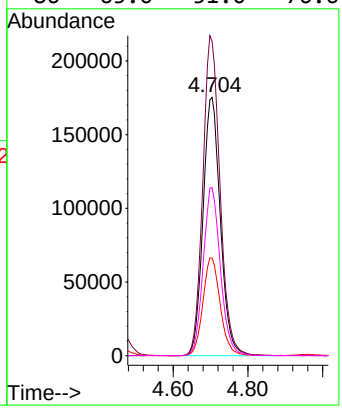




#20
Methylene Chloride
Concen: 146.224 ug/l
RT: 4.704 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 84 Resp: 56506

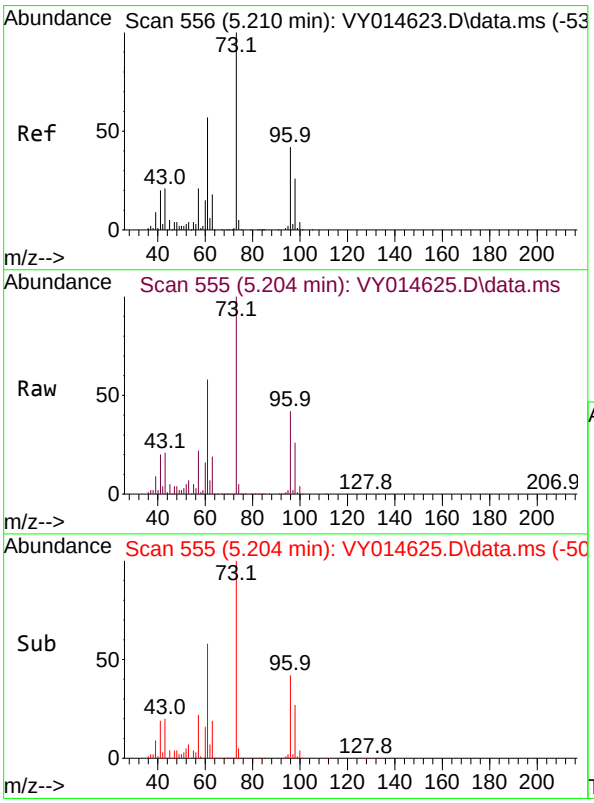
Ion	Ratio	Lower	Upper
84	100		
49	121.6	106.9	160.3
51	37.8	33.2	49.8
86	65.0	51.0	76.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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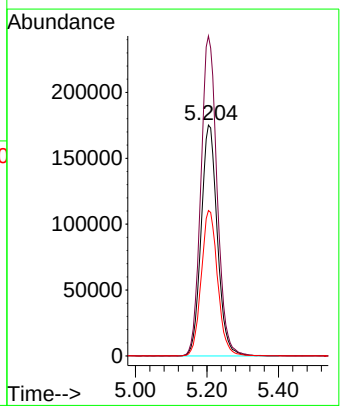
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

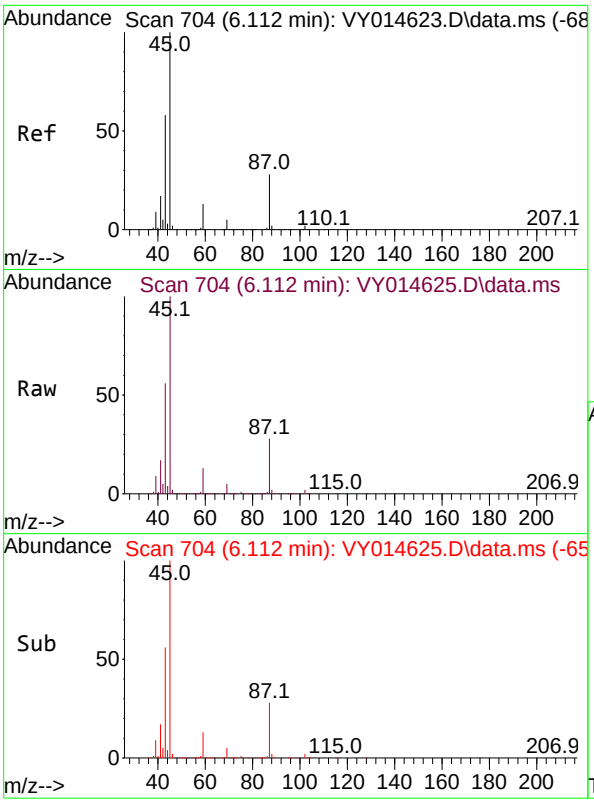


#21
trans-1,2-Dichloroethene
Concen: 141.532 ug/l
RT: 5.204 min Scan# 555
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 96 Resp: 551688

Ion	Ratio	Lower	Upper
96	100		
61	138.6	110.2	165.4
98	62.9	51.8	77.6

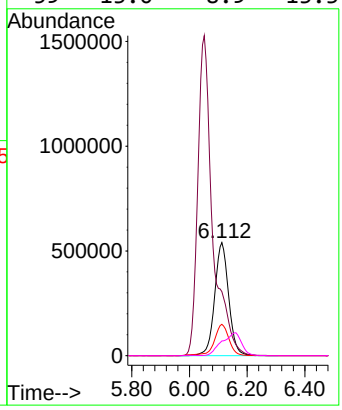




#22
Diisopropyl ether
Concen: 146.040 ug/l
RT: 6.112 min Scan# 7
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 45 Resp: 181079

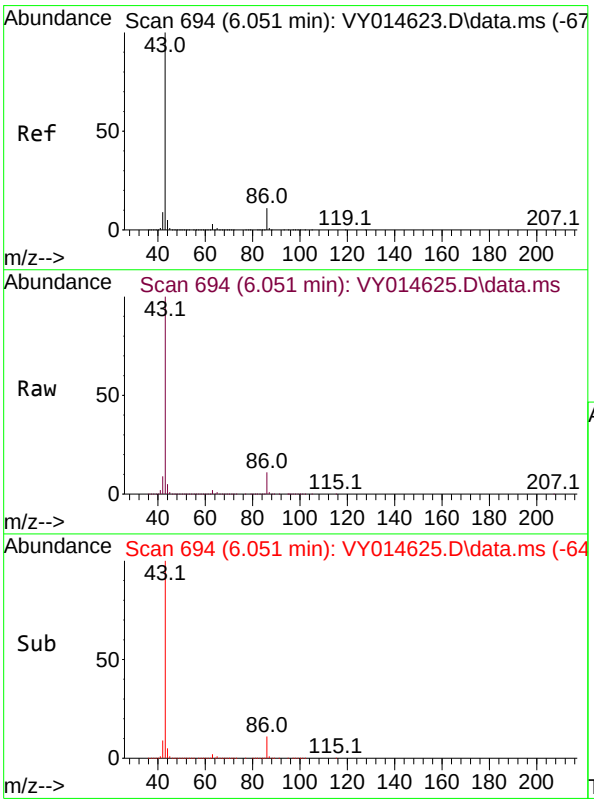
Ion	Ratio	Lower	Upper
45	100		
43	56.4	52.2	78.4
87	27.8	21.0	31.6
59	13.0	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

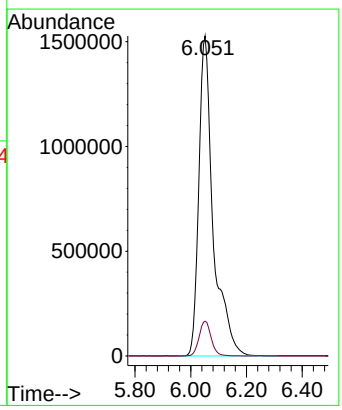
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

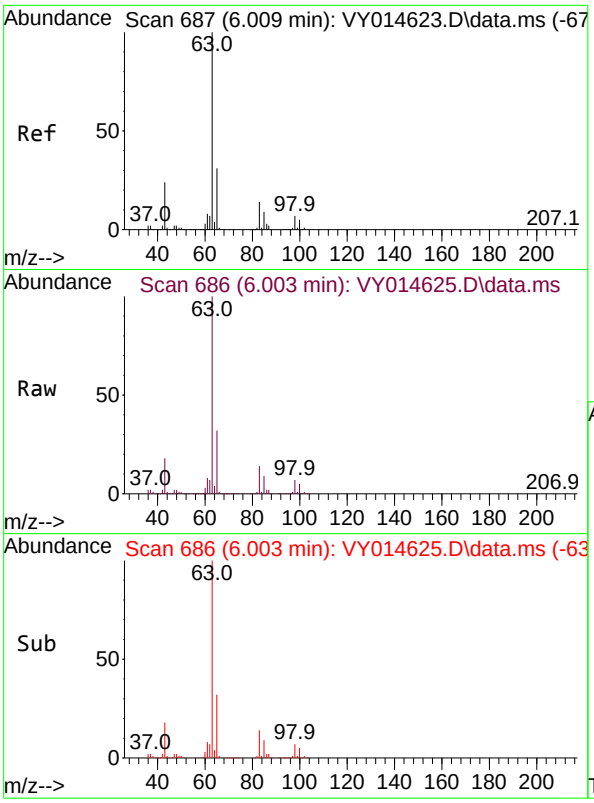


#23
Vinyl Acetate
Concen: 734.023 ug/l
RT: 6.051 min Scan# 694
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 5446499

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.5	11.3

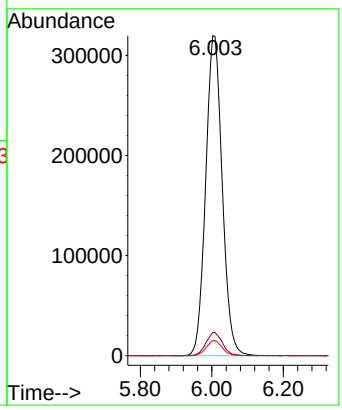




#24
1,1-Dichloroethane
Concen: 144.480 ug/l
RT: 6.003 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 63 Resp: 102503

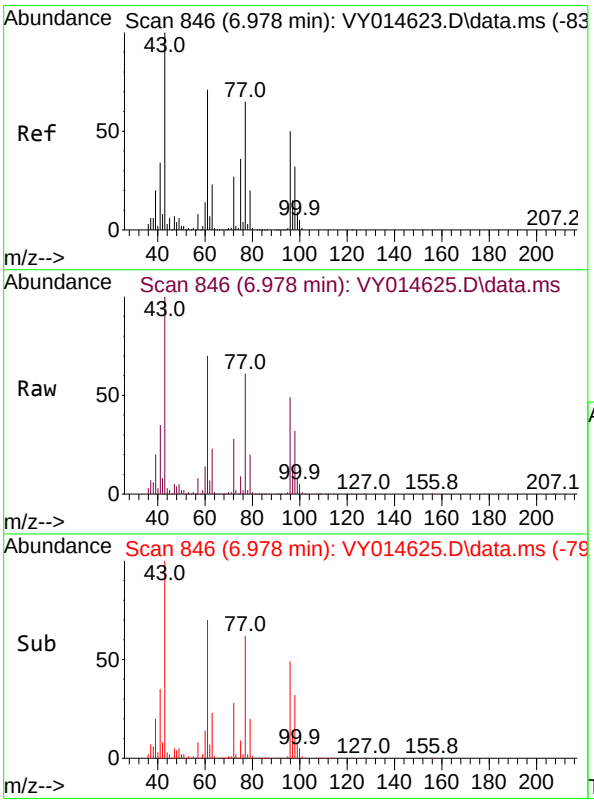
Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.1	9.4
100	4.7	1.8	5.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

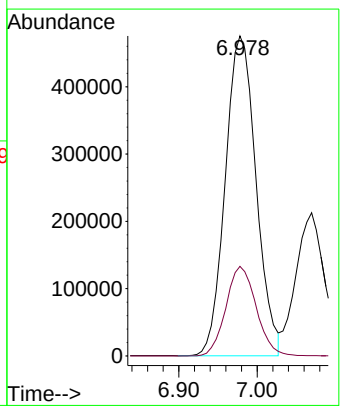
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

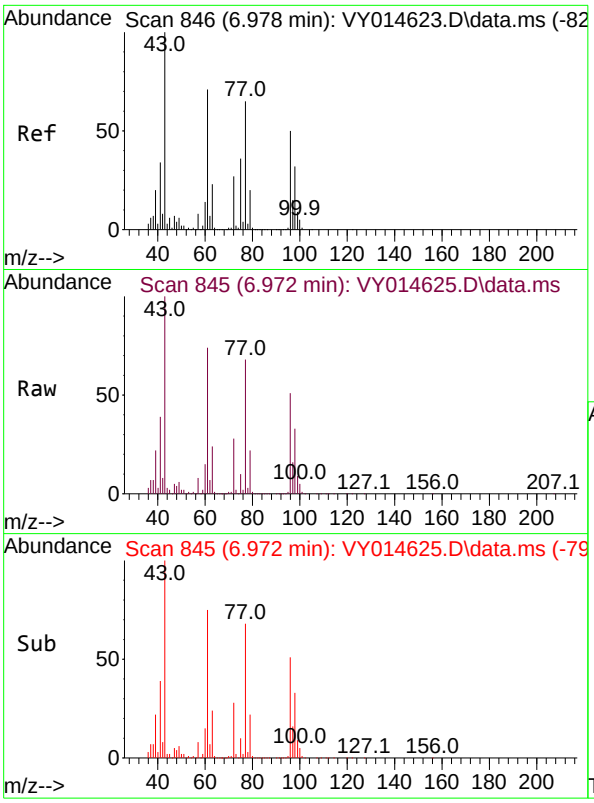


#25
2-Butanone
Concen: 704.906 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 1298937

Ion	Ratio	Lower	Upper
43	100		
72	28.0	20.5	30.7





#26
2,2-Dichloropropane
Concen: 138.730 ug/l
RT: 6.972 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

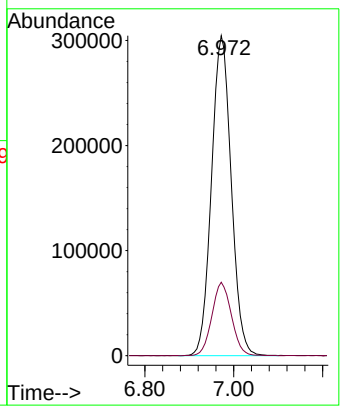
Tgt Ion: 77 Resp: 93803

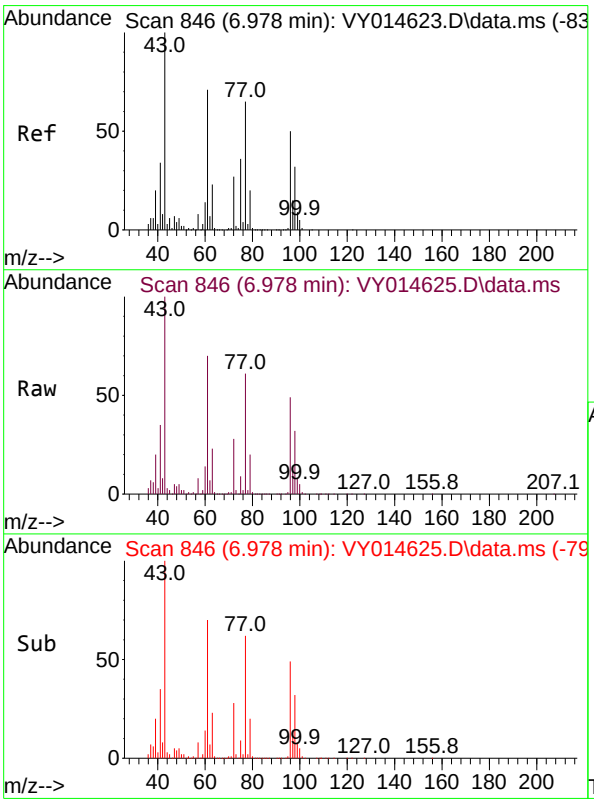
Ion	Ratio	Lower	Upper
77	100		
97	22.6	10.9	32.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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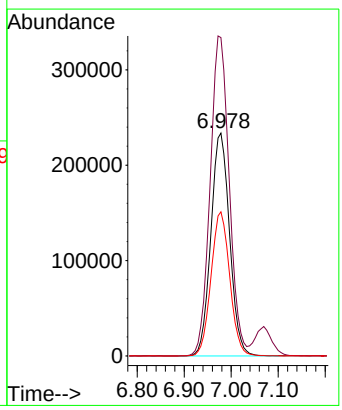


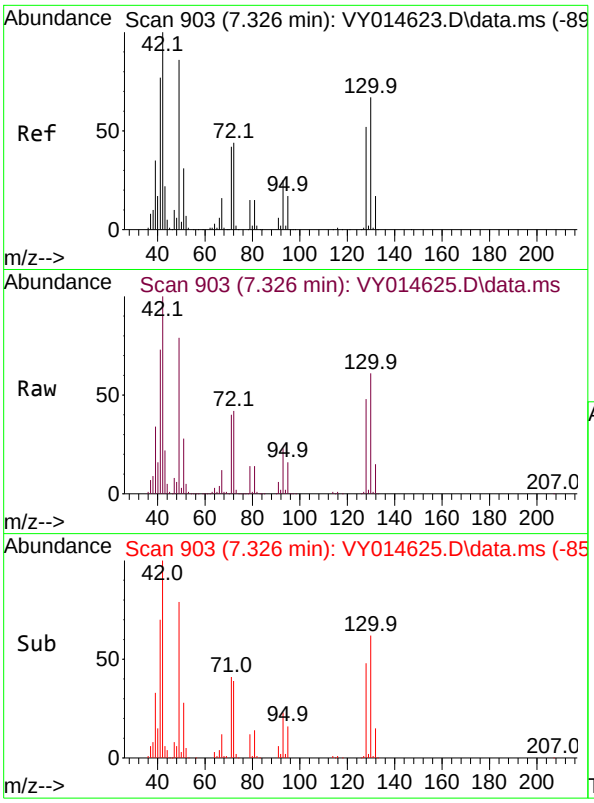


#27
cis-1,2-Dichloroethene
Concen: 142.546 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 96 Resp: 646763

Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	301.4
98	64.7	0.0	130.4





#28
Bromochloromethane
Concen: 142.245 ug/l
RT: 7.326 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

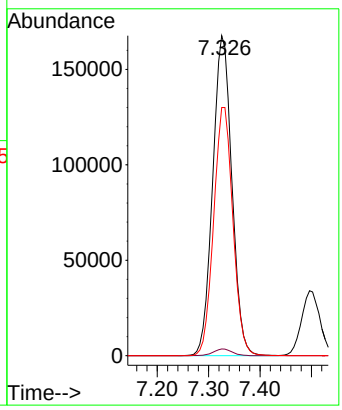
Tgt Ion: 49 Resp: 43463

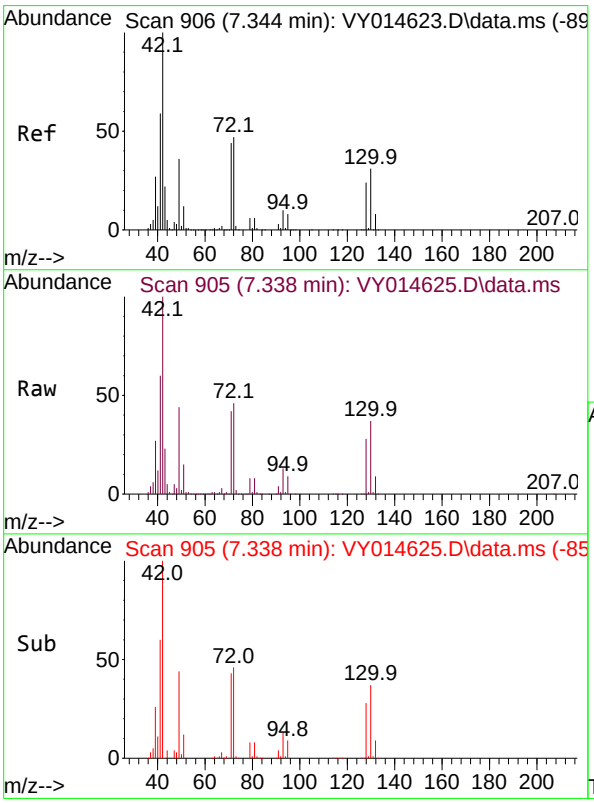
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	77.8	60.7	91.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

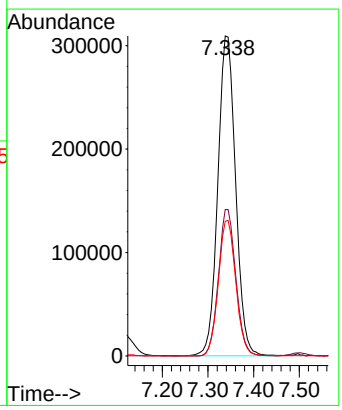


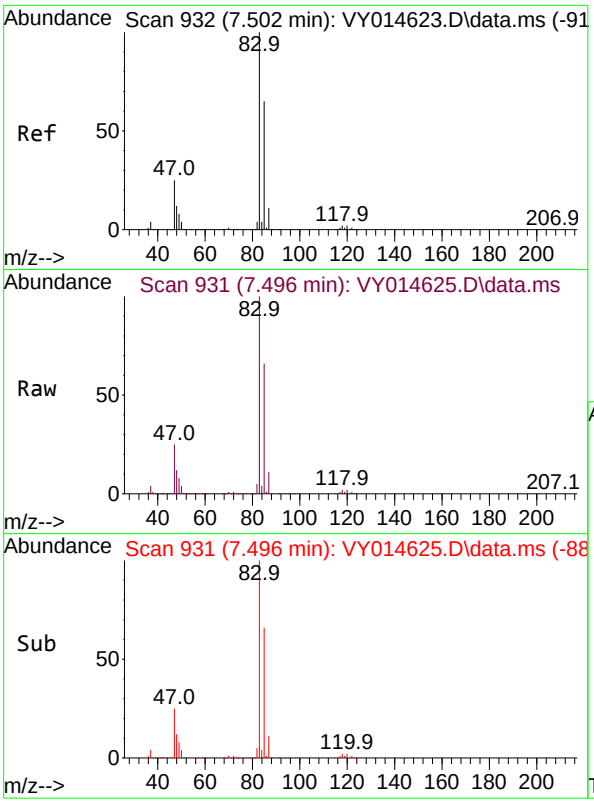


#29
Tetrahydrofuran
Concen: 735.940 ug/l
RT: 7.338 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 42 Resp: 835039

Ion	Ratio	Lower	Upper
42	100		
72	44.8	32.8	49.2
71	41.7	31.0	46.4





#30
Chloroform
Concen: 143.406 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

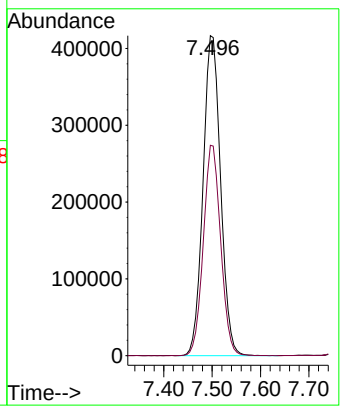
Tgt Ion: 83 Resp: 104916

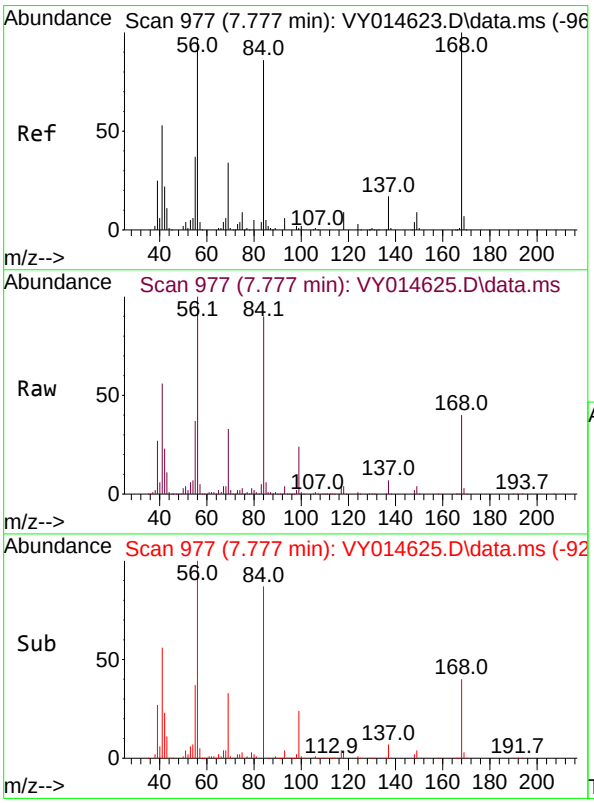
Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.7	74.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

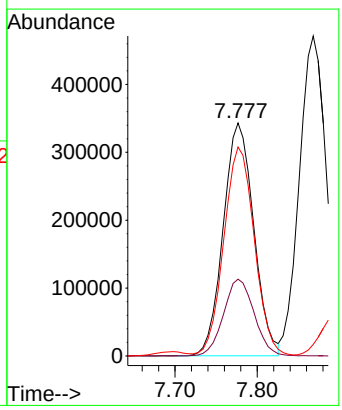


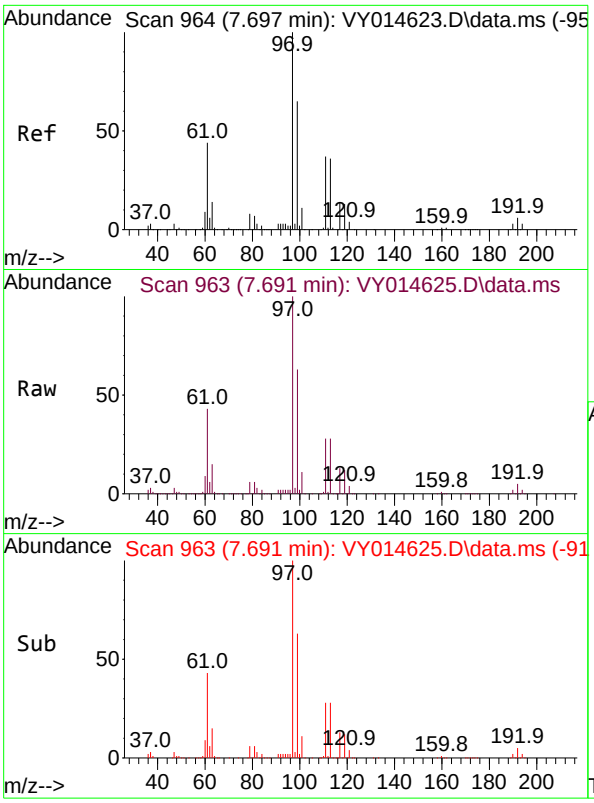


#31
Cyclohexane
Concen: 134.297 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 56 Resp: 886109

Ion	Ratio	Lower	Upper
56	100		
69	32.9	27.8	41.6
84	88.0	66.4	99.6

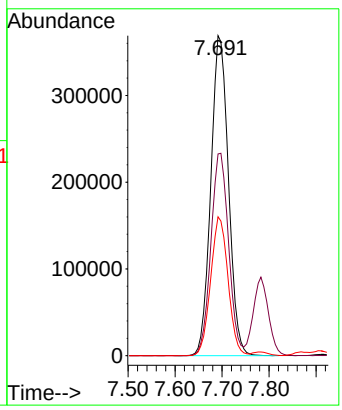




#32
1,1,1-Trichloroethane
Concen: 145.741 ug/l
RT: 7.691 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 97 Resp: 95963

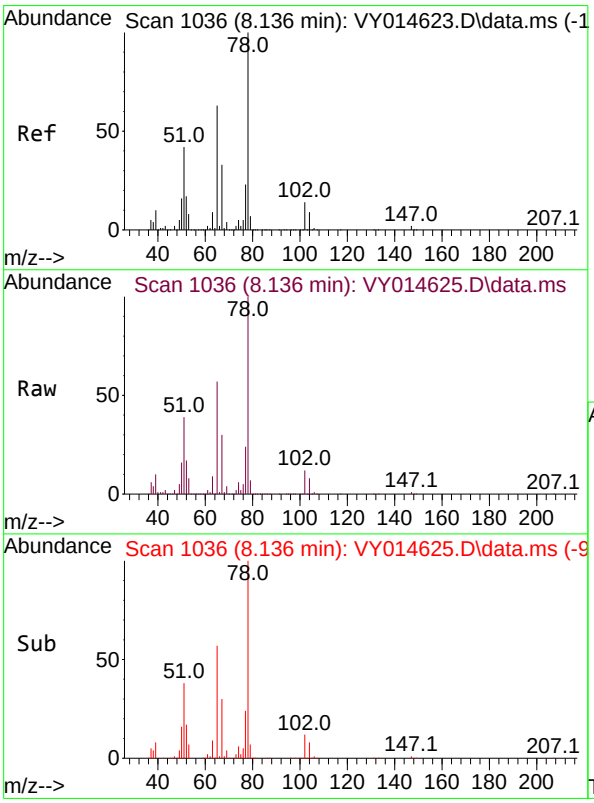
Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.8	76.2
61	43.0	35.1	52.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

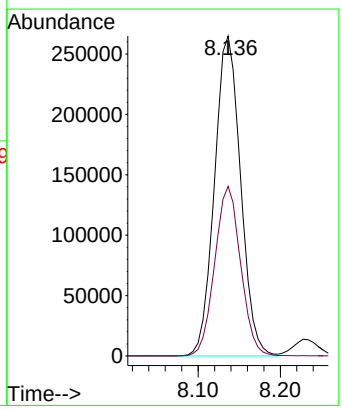
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

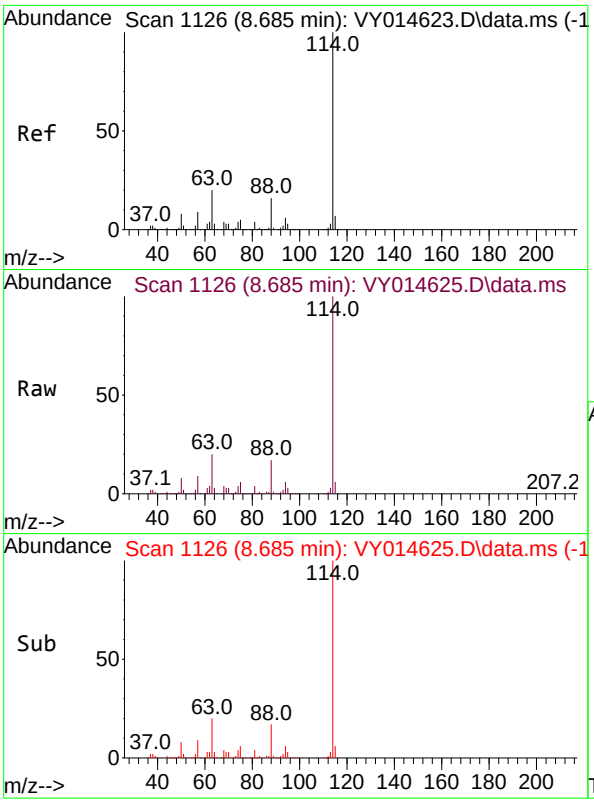


#33
1,2-Dichloroethane-d4
Concen: 147.256 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 65 Resp: 585307

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	101.8

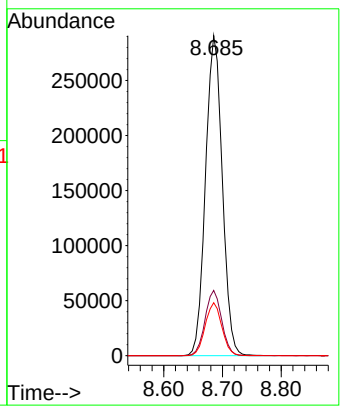




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:114 Resp: 57707

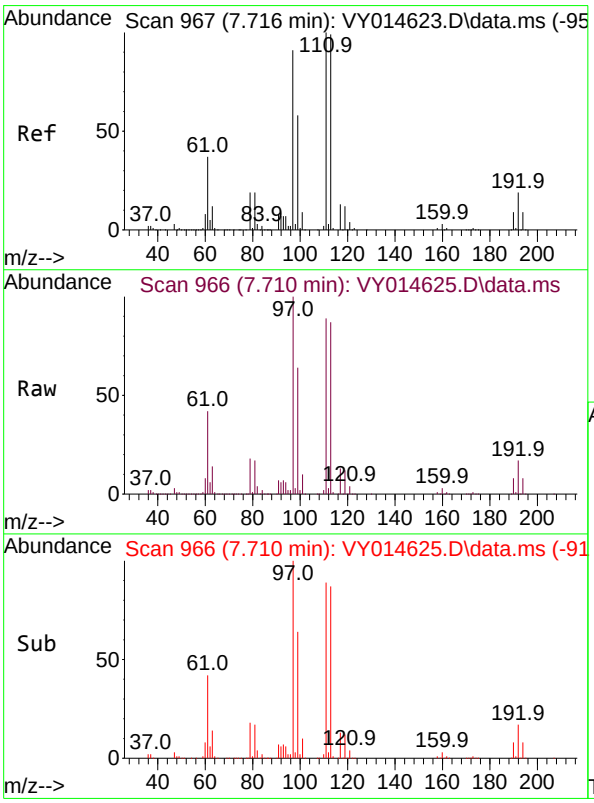
Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.4
88	16.5	0.0	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

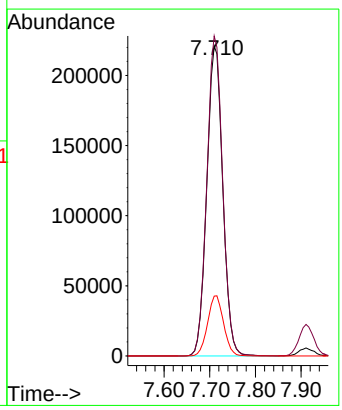
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

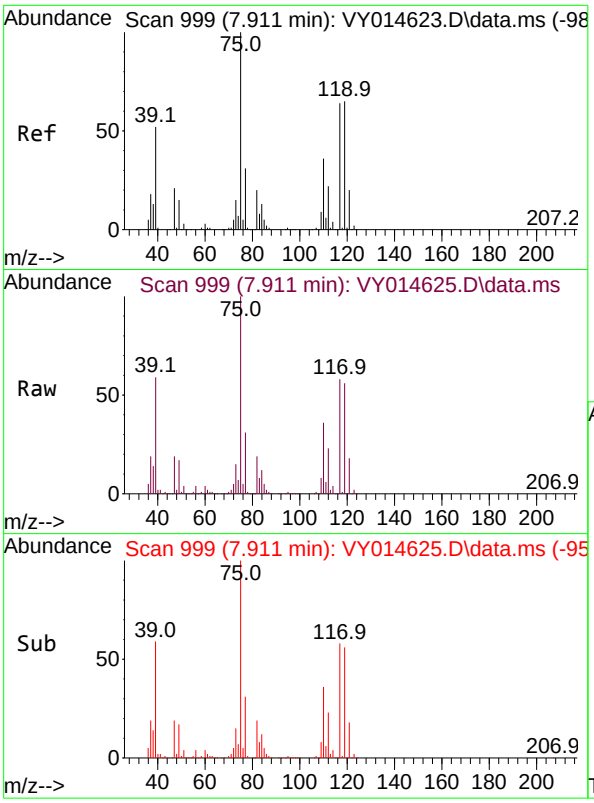


#35
Dibromofluoromethane
Concen: 145.783 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:113 Resp: 535540

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.3	121.9
192	19.4	16.9	25.3

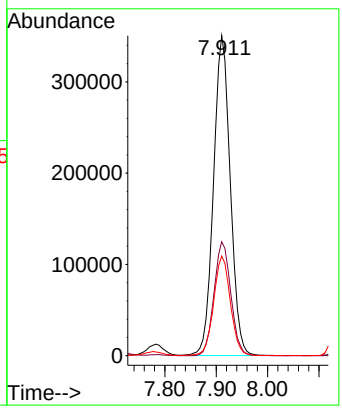




#36
1,1-Dichloropropene
Concen: 144.419 ug/l
RT: 7.911 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 79338

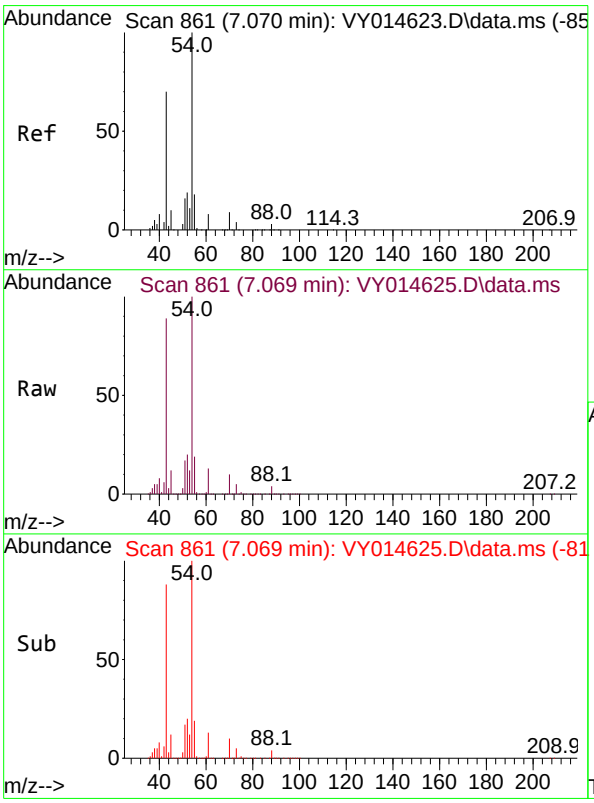
Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.8	53.5
77	31.1	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

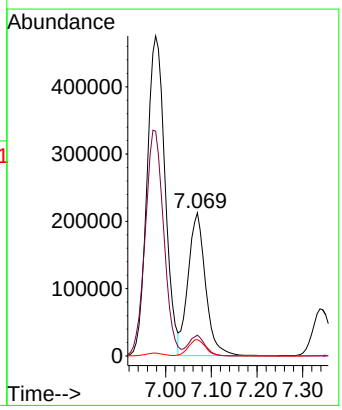
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

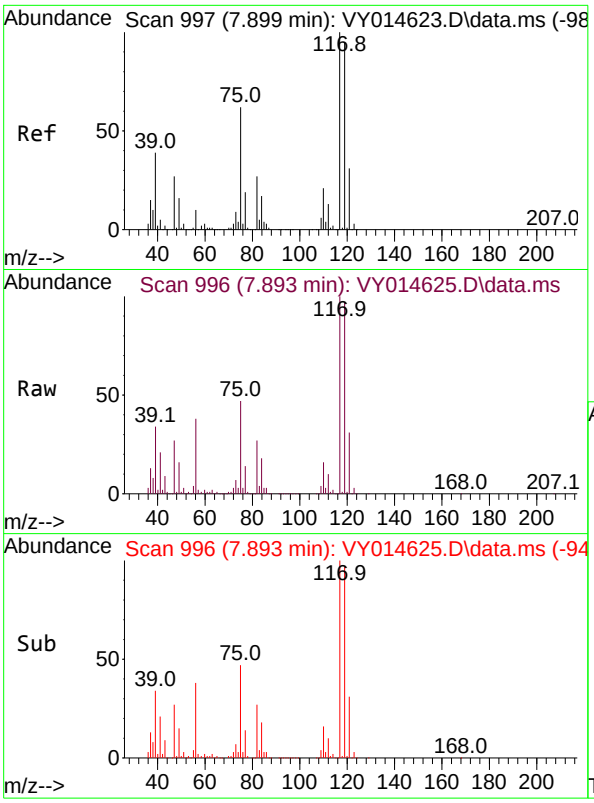


#37
Ethyl Acetate
Concen: 148.014 ug/l
RT: 7.069 min Scan# 861
Delta R.T. -0.001 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 559843

Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.1	15.1
70	11.3	7.1	10.7#

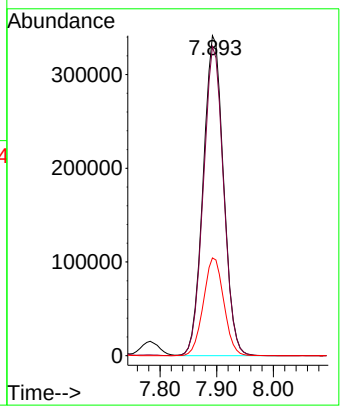




#38
Carbon Tetrachloride
Concen: 146.744 ug/l
RT: 7.893 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:117 Resp: 85218

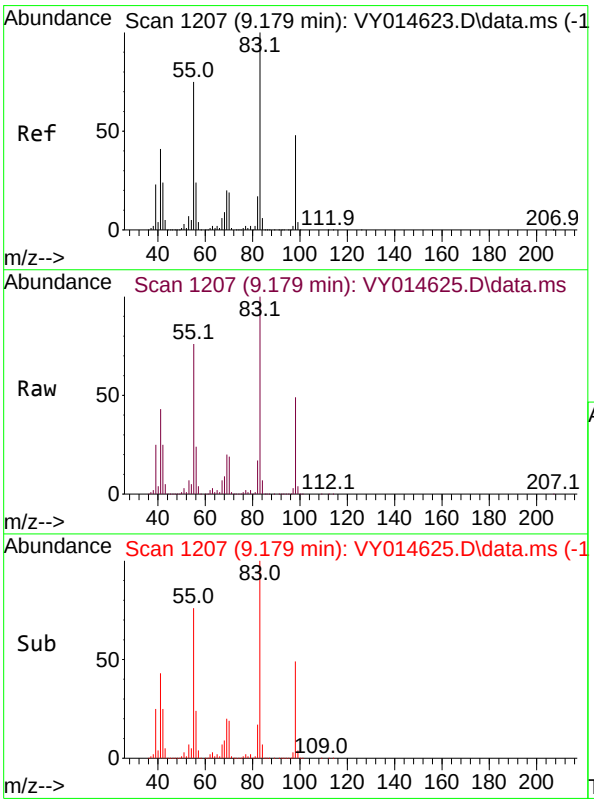
Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.4	114.6
121	30.6	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

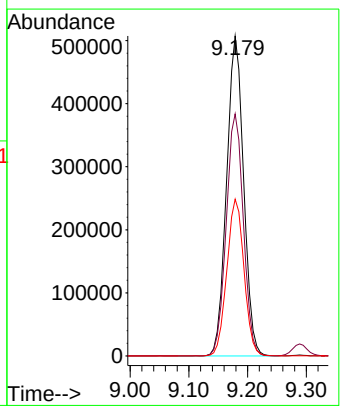
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

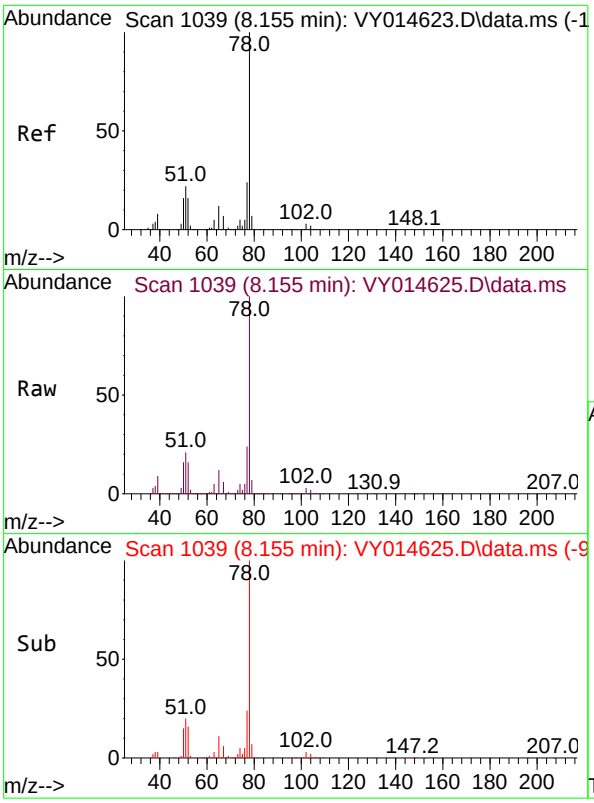


#39
Methylcyclohexane
Concen: 142.628 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 83 Resp: 1020817

Ion	Ratio	Lower	Upper
83	100		
55	75.6	63.0	94.4
98	49.0	37.4	56.2

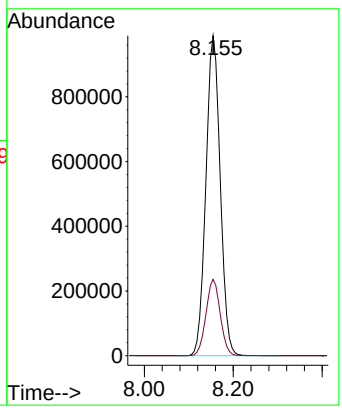




#40
Benzene
Concen: 142.073 ug/l
RT: 8.155 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 78 Resp: 221978

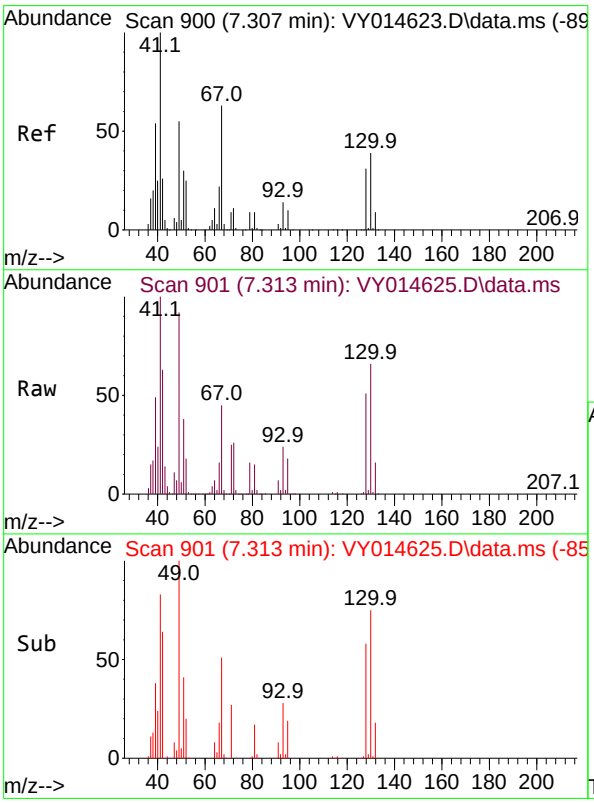
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

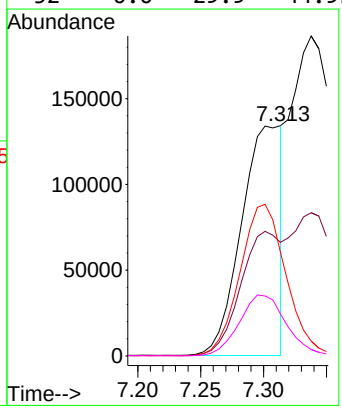
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

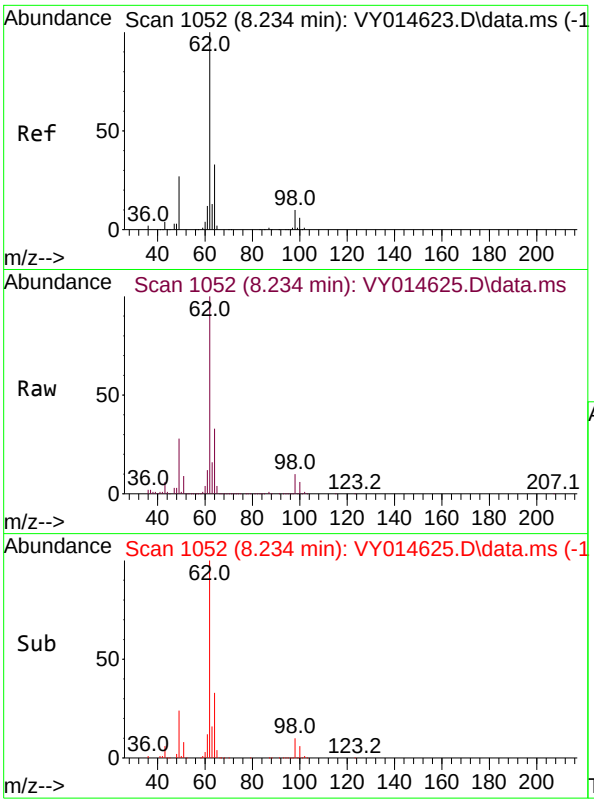


#41
Methacrylonitrile
Concen: 149.523 ug/l m
RT: 7.313 min Scan# 901
Delta R.T. 0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 41 Resp: 299074

Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#

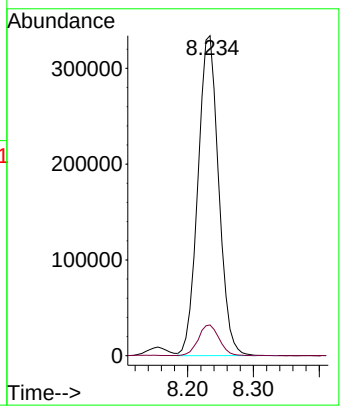




#42
1,2-Dichloroethane
Concen: 147.873 ug/l
RT: 8.234 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 62 Resp: 7316

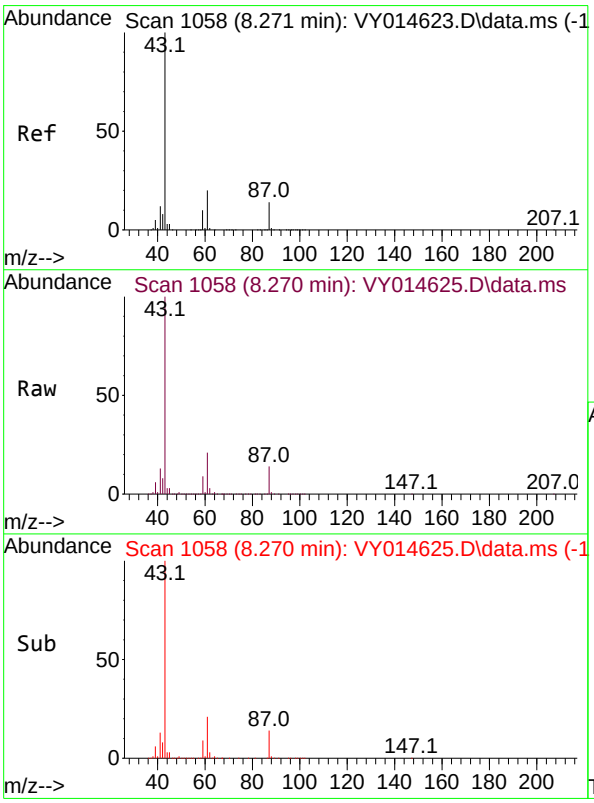
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

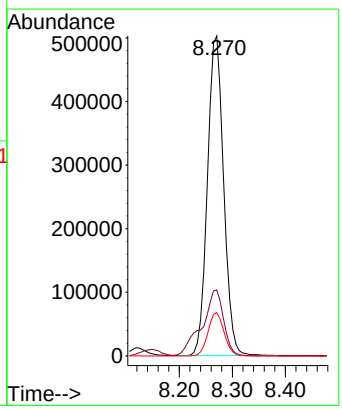
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

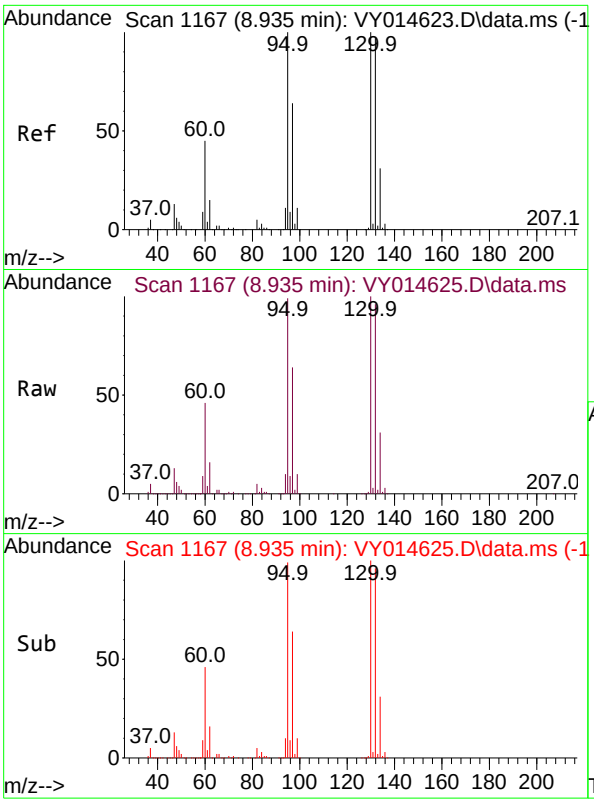


#43
Isopropyl Acetate
Concen: 148.046 ug/l
RT: 8.270 min Scan# 1058
Delta R.T. -0.001 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 1066678

Ion	Ratio	Lower	Upper
43	100		
61	27.6	21.1	31.7
87	13.5	9.8	14.8

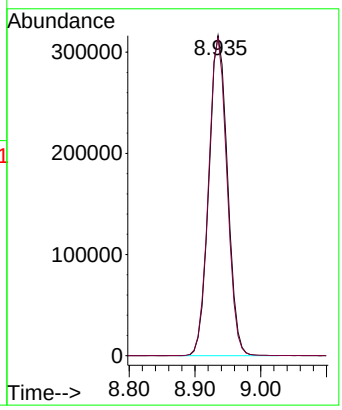




#44
Trichloroethene
Concen: 142.887 ug/l
RT: 8.935 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:130 Resp: 62463

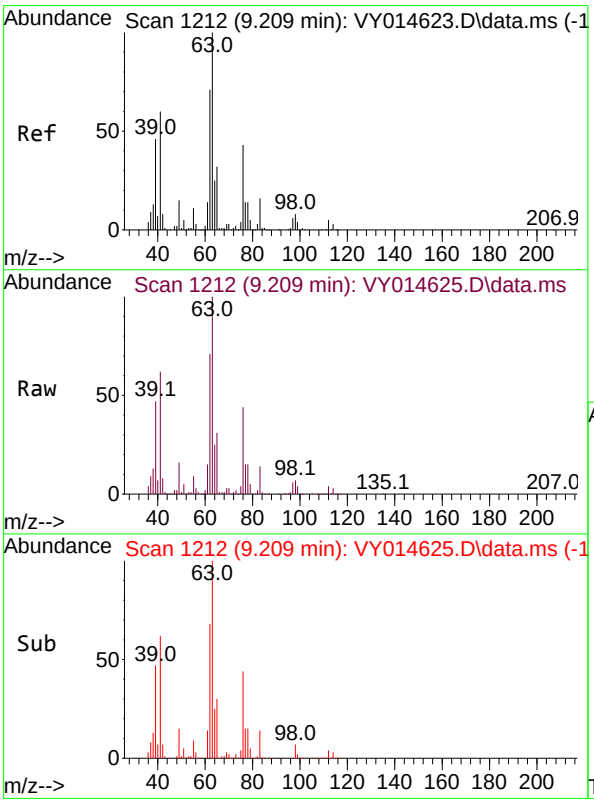
Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	196.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

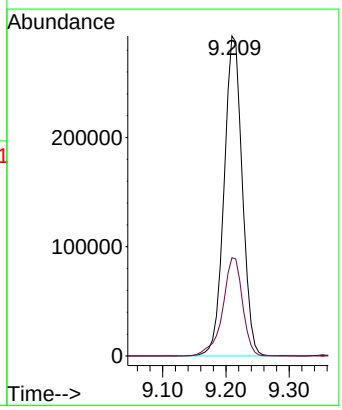
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

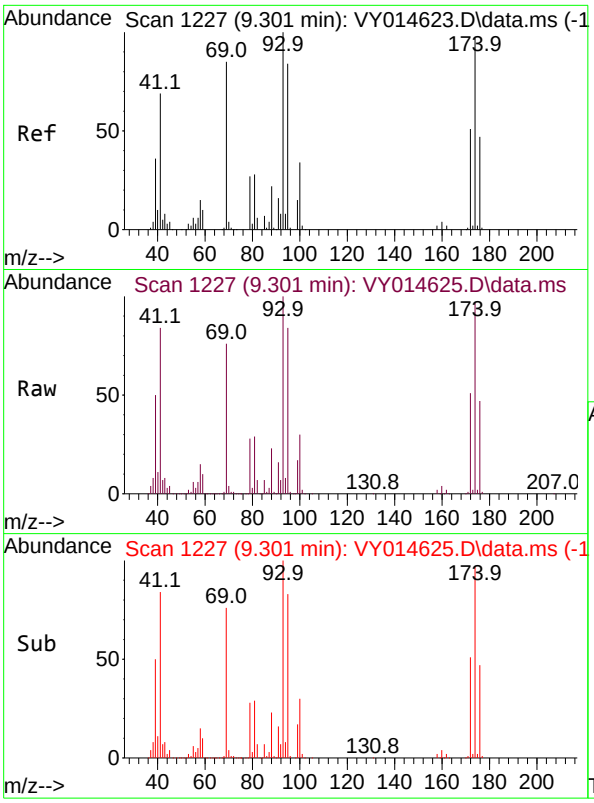


#45
1,2-Dichloropropane
Concen: 142.999 ug/l
RT: 9.209 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 63 Resp: 583415

Ion	Ratio	Lower	Upper
63	100		
65	30.7	23.8	35.6

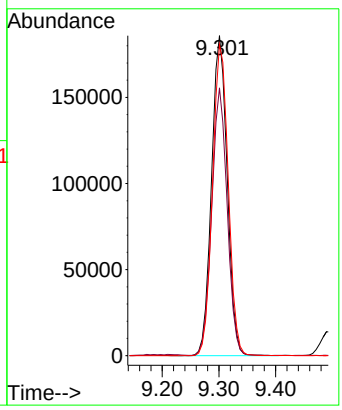




#46
Dibromomethane
Concen: 143.861 ug/l
RT: 9.301 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 93 Resp: 35606

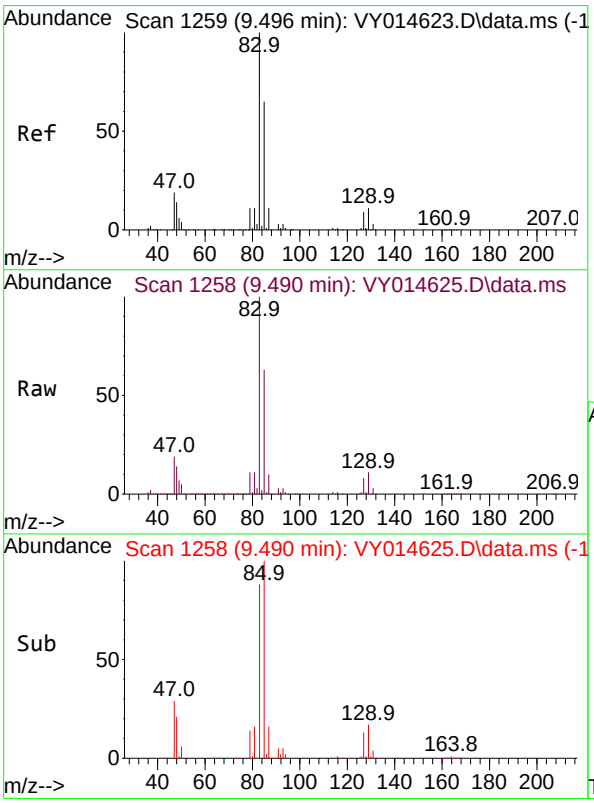
Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.6	100.0
174	97.9	84.8	127.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

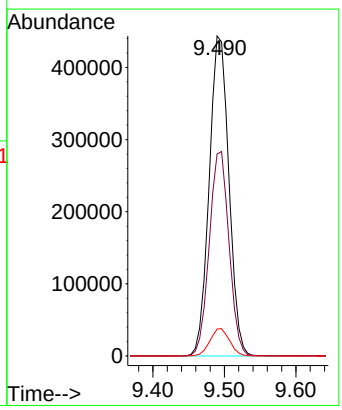
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

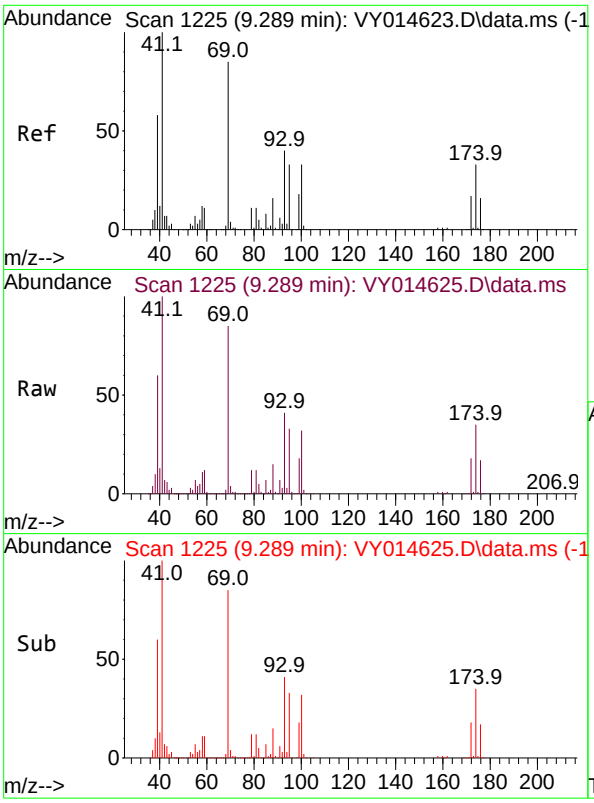


#47
Bromodichloromethane
Concen: 145.421 ug/l
RT: 9.490 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 83 Resp: 848301

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.1	75.1
127	8.4	7.1	10.7





#48
Methyl methacrylate
Concen: 149.200 ug/l
RT: 9.289 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

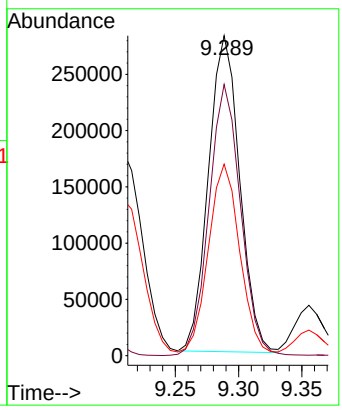
Tgt Ion: 41 Resp: 48371

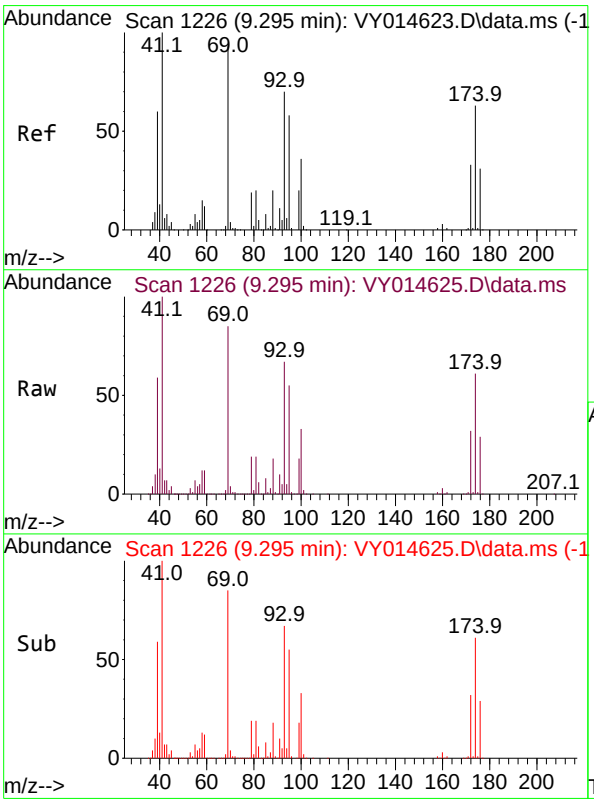
Ion	Ratio	Lower	Upper
41	100		
69	86.5	64.5	96.7
39	59.1	50.8	76.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

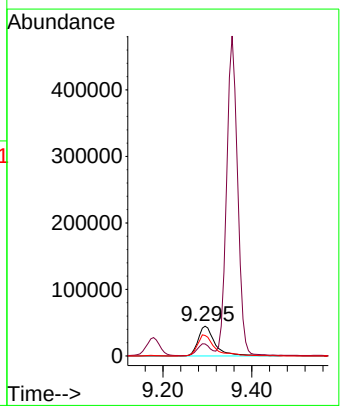


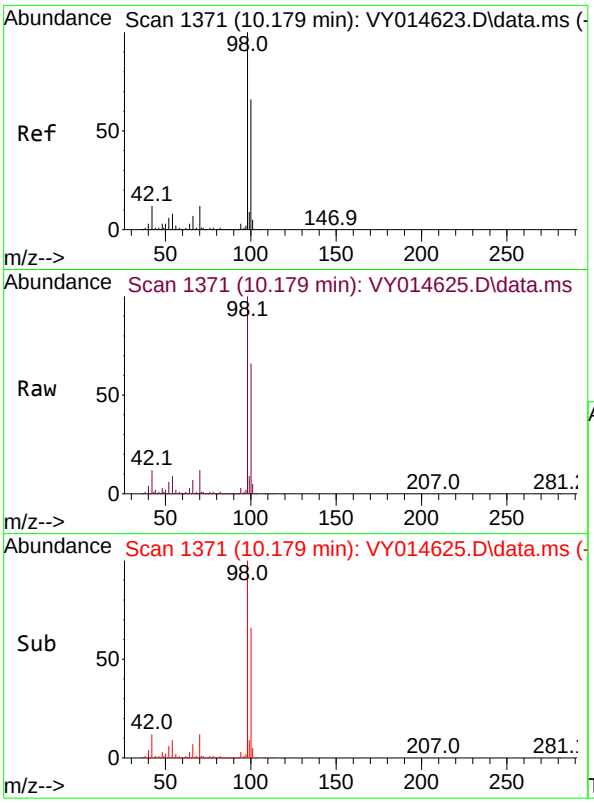


#49
1,4-Dioxane
Concen: 2967.364 ug/l
RT: 9.295 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 88 Resp: 119756

Ion	Ratio	Lower	Upper
88	100		
43	32.0	0.0	0.0#
58	72.2	30.9	46.3#

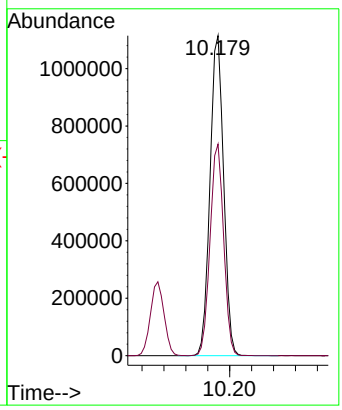




#50
Toluene-d8
Concen: 141.039 ug/l
RT: 10.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 98 Resp: 191016

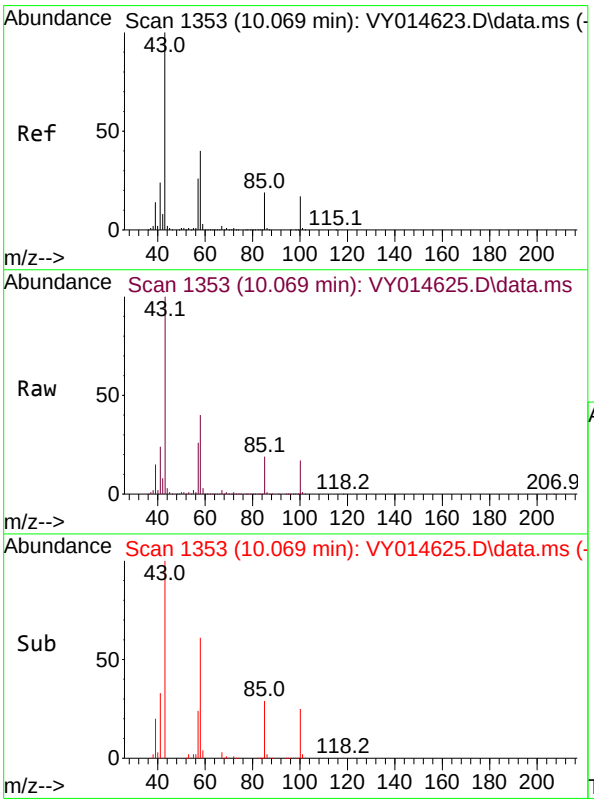
Ion	Ratio	Lower	Upper
98	100		
100	65.9	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

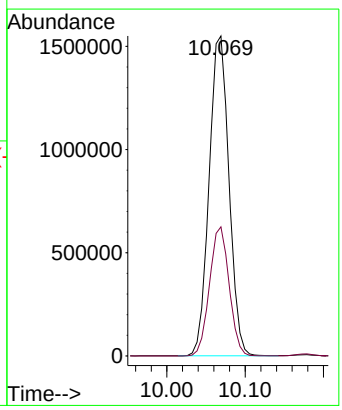
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

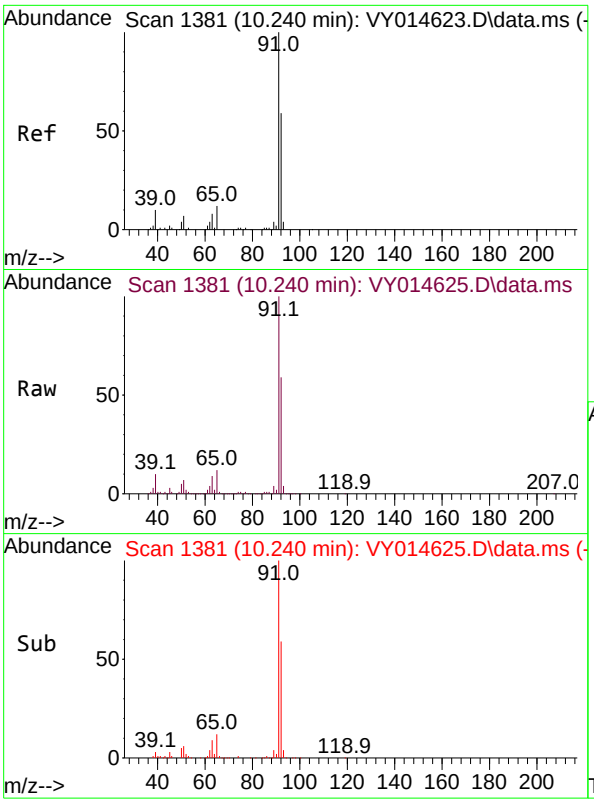


#51
4-Methyl-2-Pentanone
Concen: 722.043 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 2731477

Ion	Ratio	Lower	Upper
43	100		
58	39.8	29.0	43.6

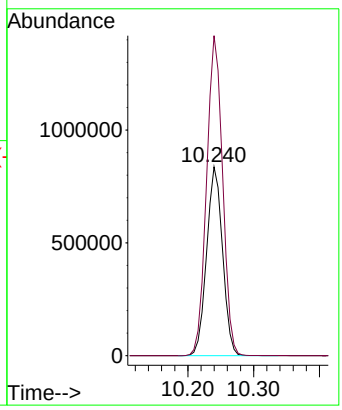




#52
Toluene
Concen: 140.763 ug/l
RT: 10.240 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 92 Resp: 140734

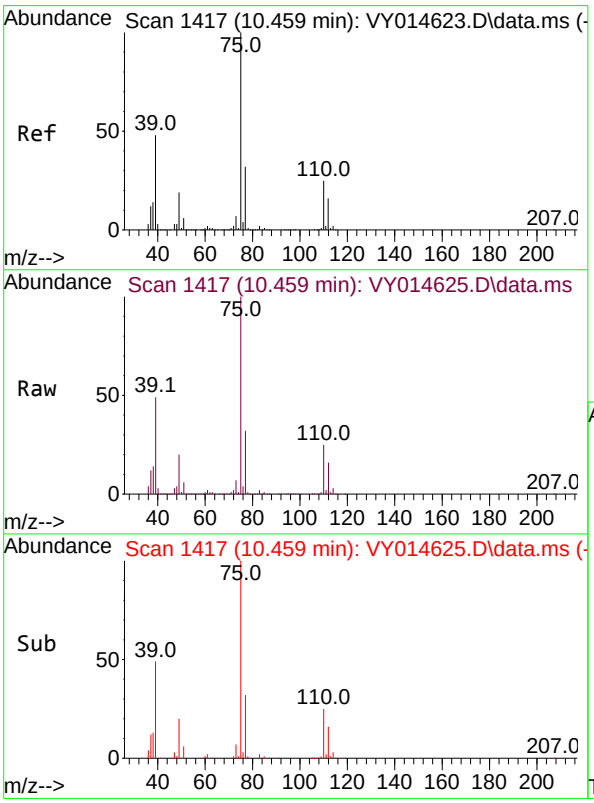
Ion	Ratio	Lower	Upper
92	100		
91	170.4	143.8	215.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

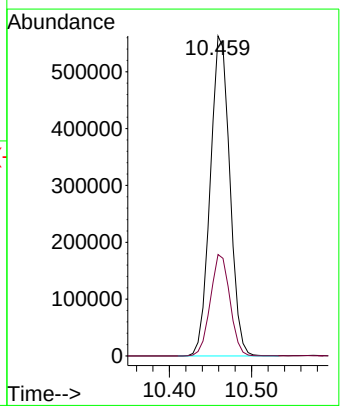
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

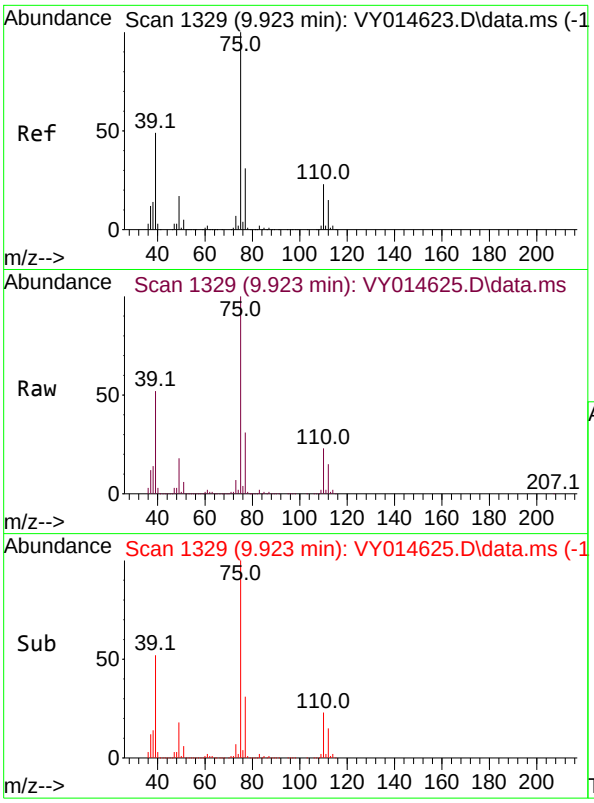


#53
t-1,3-Dichloropropene
Concen: 145.680 ug/l
RT: 10.459 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 929558

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4

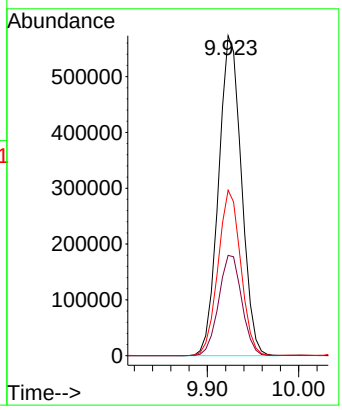




#54
cis-1,3-Dichloropropene
Concen: 143.683 ug/l
RT: 9.923 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 99700

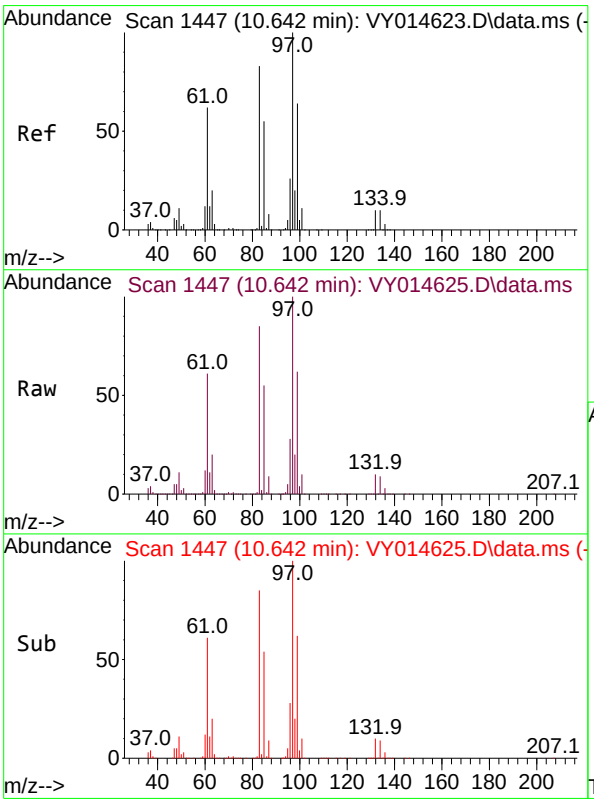
Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.2	36.4
39	51.6	42.2	63.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

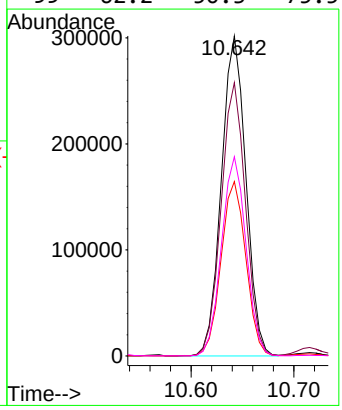
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

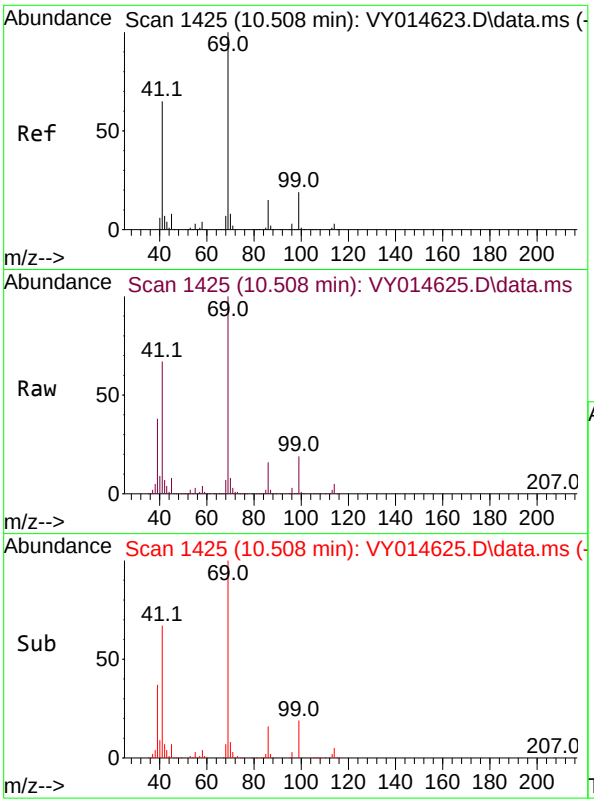


#55
1,1,2-Trichloroethane
Concen: 145.367 ug/l
RT: 10.642 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 97 Resp: 501174

Ion	Ratio	Lower	Upper
97	100		
83	85.4	72.0	108.0
85	54.5	45.4	68.0
99	62.2	50.3	75.5





#56
Ethyl methacrylate
Concen: 146.751 ug/l
RT: 10.508 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

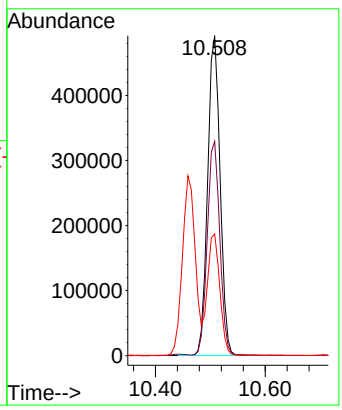
Tgt Ion: 69 Resp: 77249

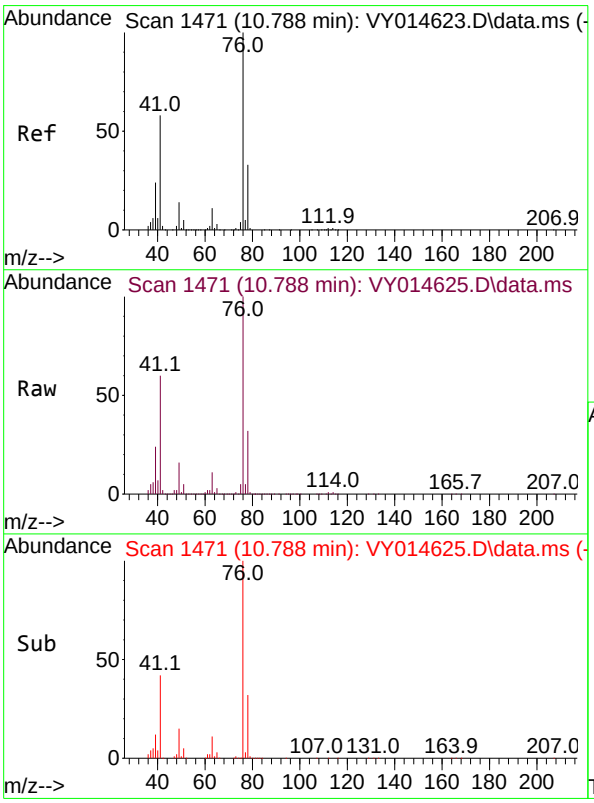
Ion	Ratio	Lower	Upper
69	100		
41	67.1	57.6	86.4
39	37.9	34.1	51.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

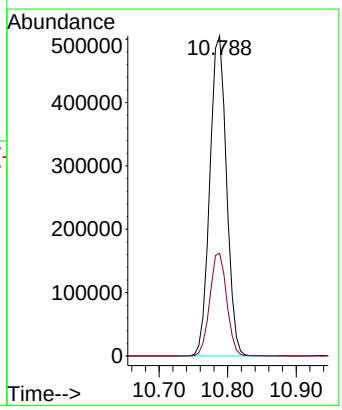


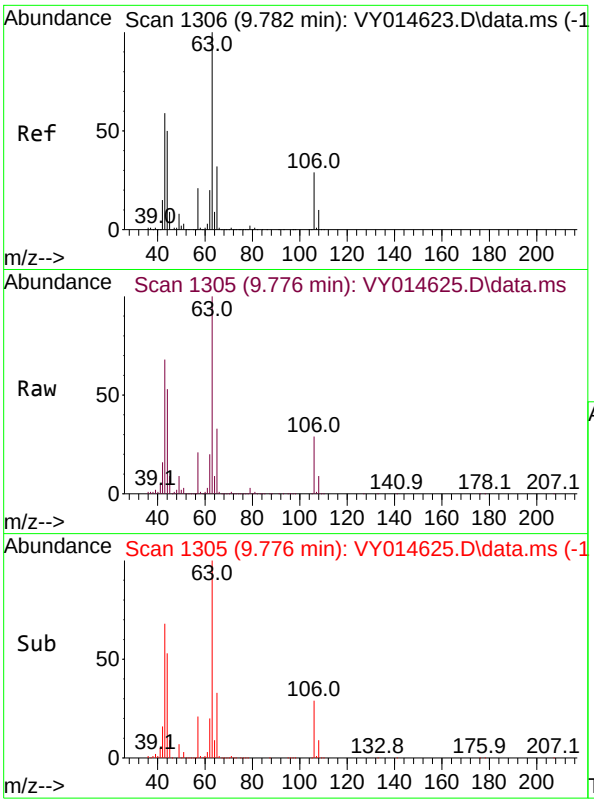


#57
1,3-Dichloropropane
Concen: 143.930 ug/l
RT: 10.788 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 76 Resp: 855880

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.3	37.9

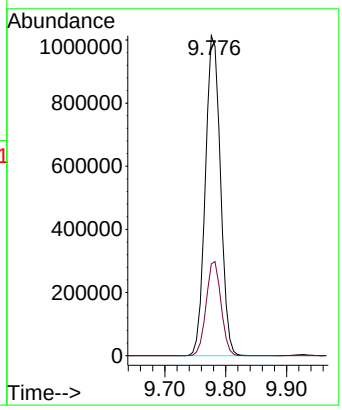




#58
2-Chloroethyl Vinyl ether
Concen: 711.567 ug/l
RT: 9.776 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 63 Resp: 174527

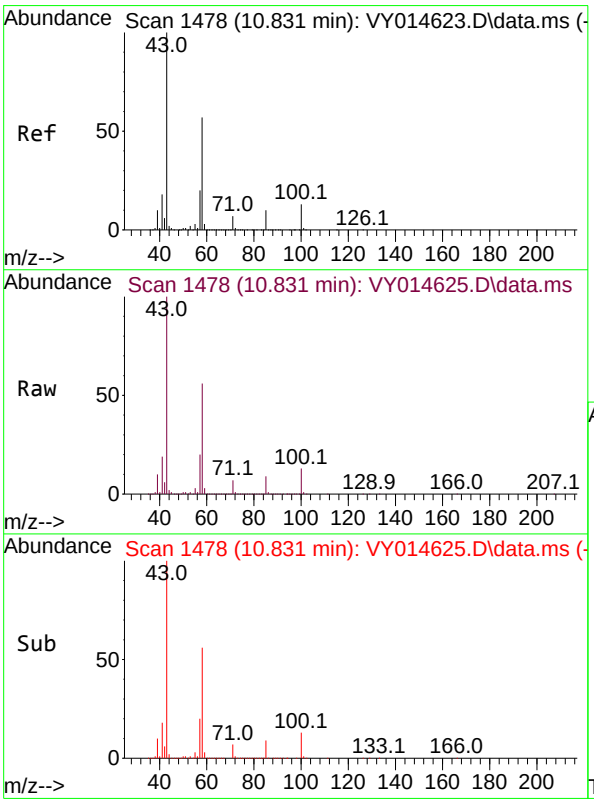
Ion	Ratio	Lower	Upper
63	100		
106	29.1	21.2	31.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

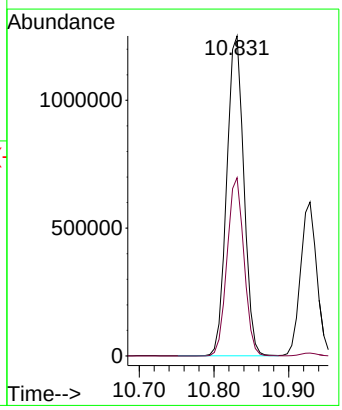
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

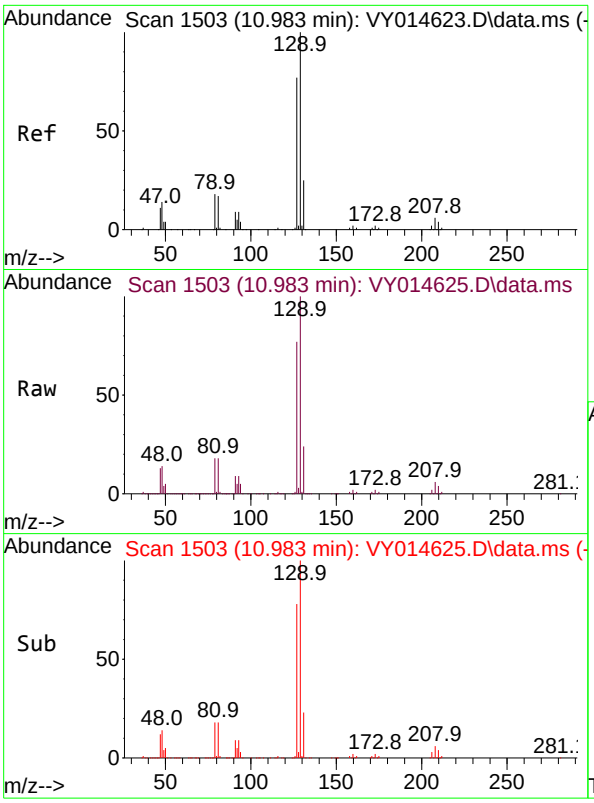


#59
2-Hexanone
Concen: 723.199 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 1995130

Ion	Ratio	Lower	Upper
43	100		
58	55.1	25.1	75.3





#60
Dibromochloromethane
Concen: 145.327 ug/l
RT: 10.983 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

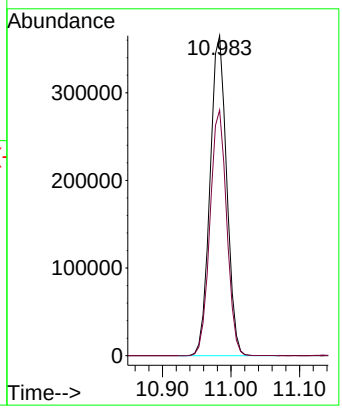
Tgt Ion:129 Resp: 61430

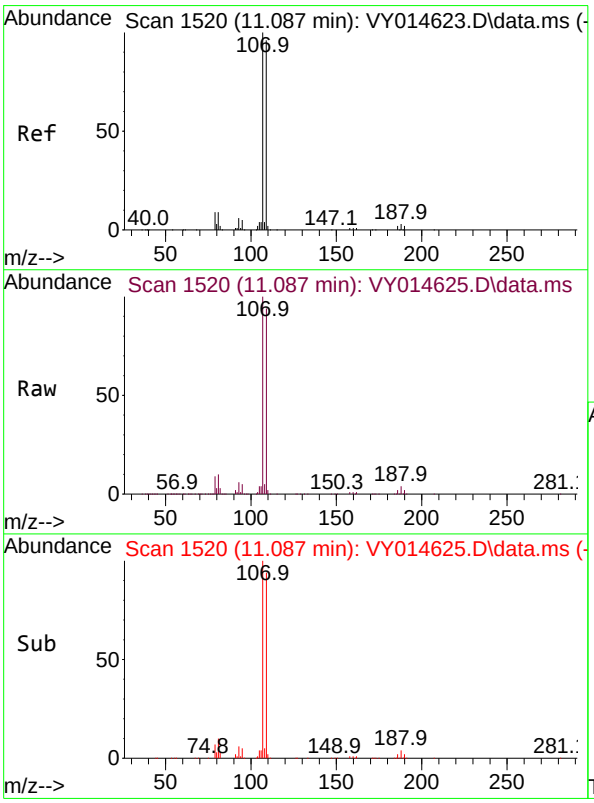
Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

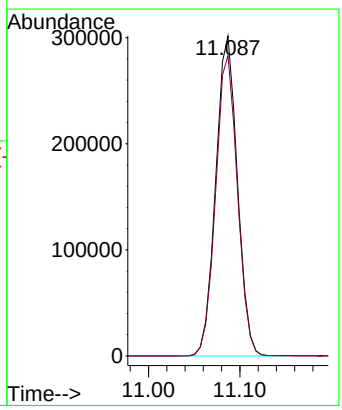


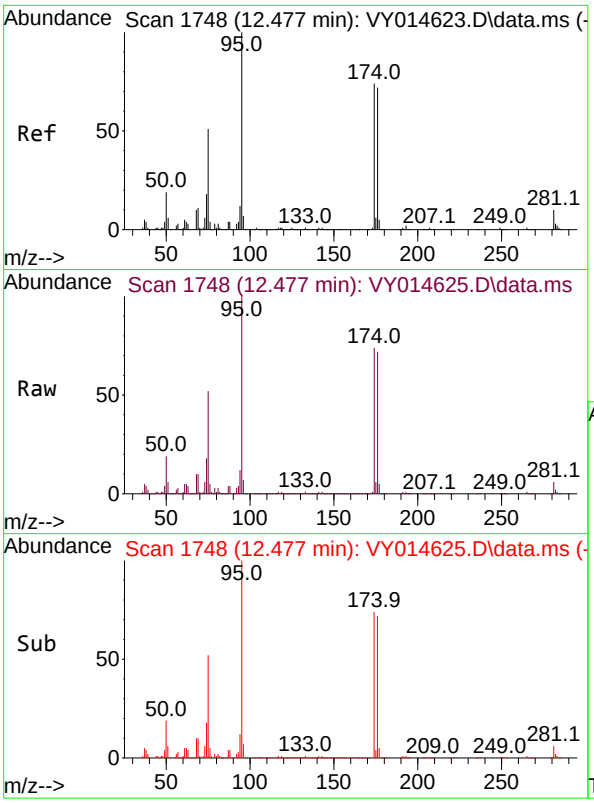


#61
1,2-Dibromoethane
Concen: 144.513 ug/l
RT: 11.087 min Scan# 1520
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:107 Resp: 497034

Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.6	113.4

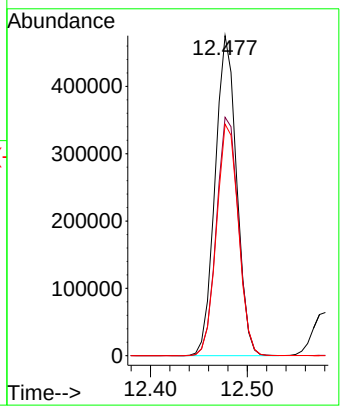




#62
4-Bromofluorobenzene
Concen: 141.163 ug/l
RT: 12.477 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 95 Resp: 73307

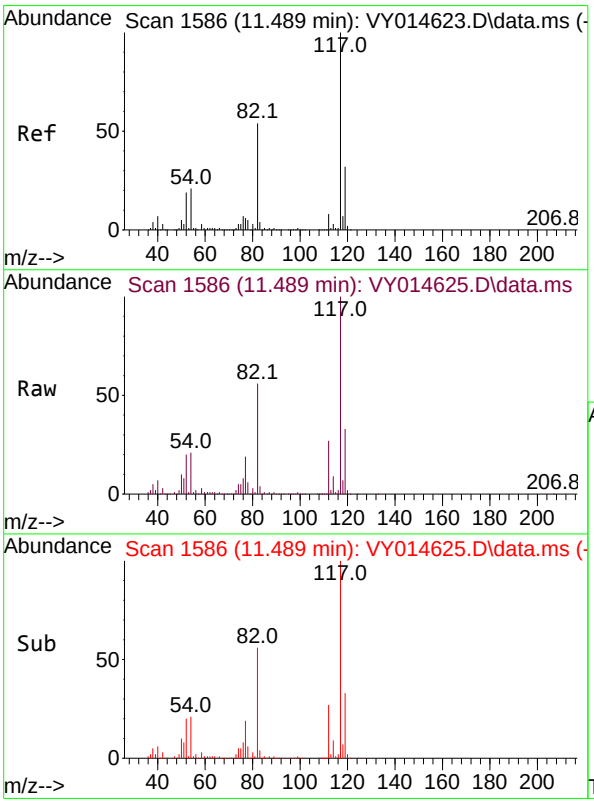
Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	178.2
176	73.7	0.0	173.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

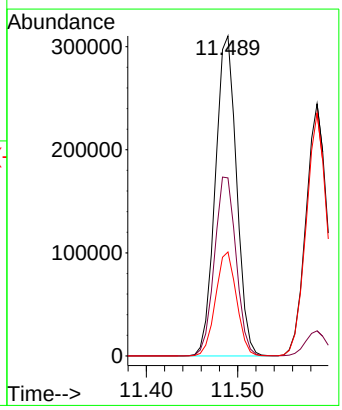
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

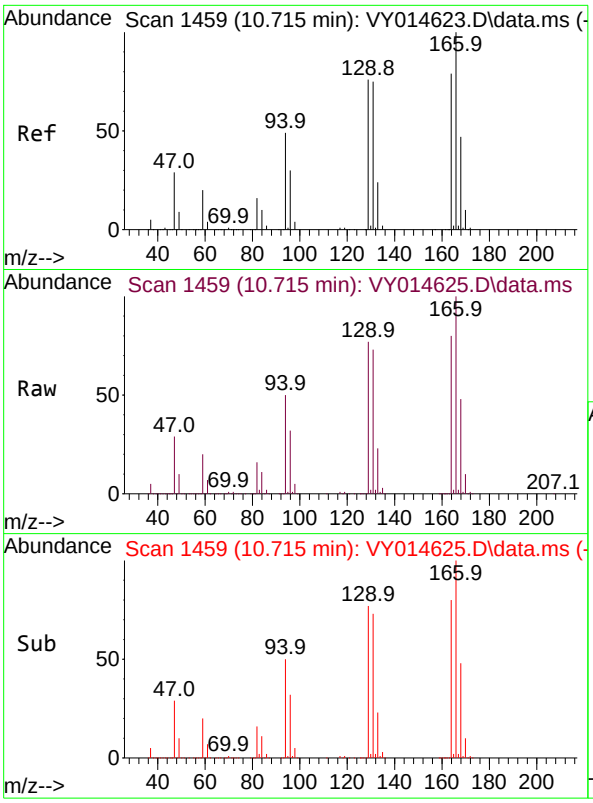


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:117 Resp: 501847

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.5	26.3	39.5

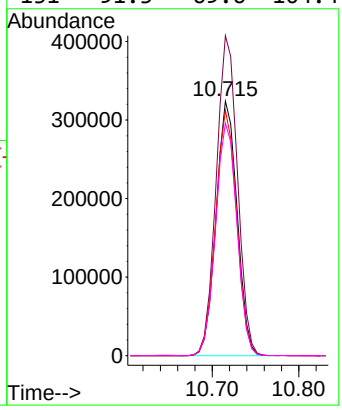




#64
Tetrachloroethene
Concen: 135.286 ug/l
RT: 10.715 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:164 Resp: 54603

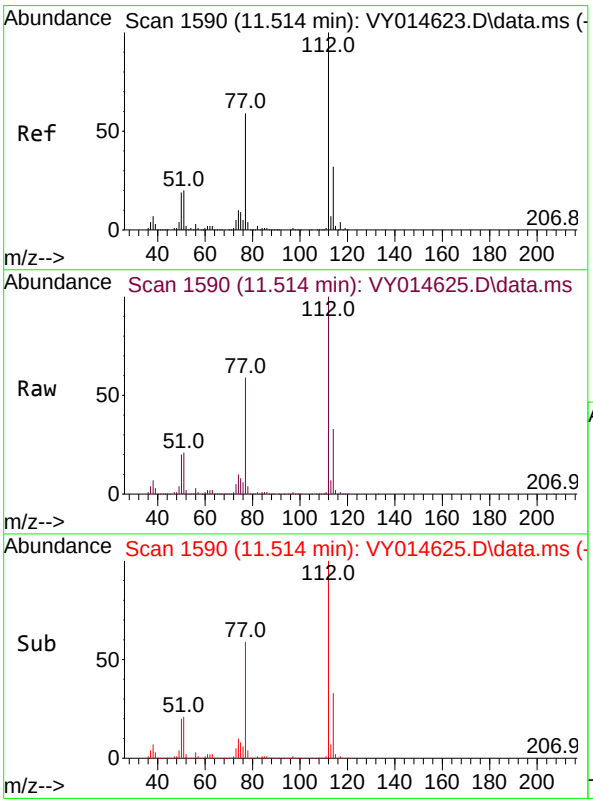
Ion	Ratio	Lower	Upper
164	100		
166	125.7	103.0	154.6
129	96.4	77.2	115.8
131	91.3	69.6	104.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

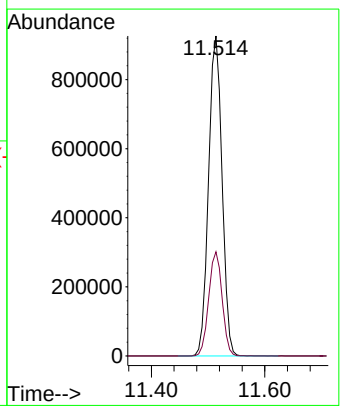
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

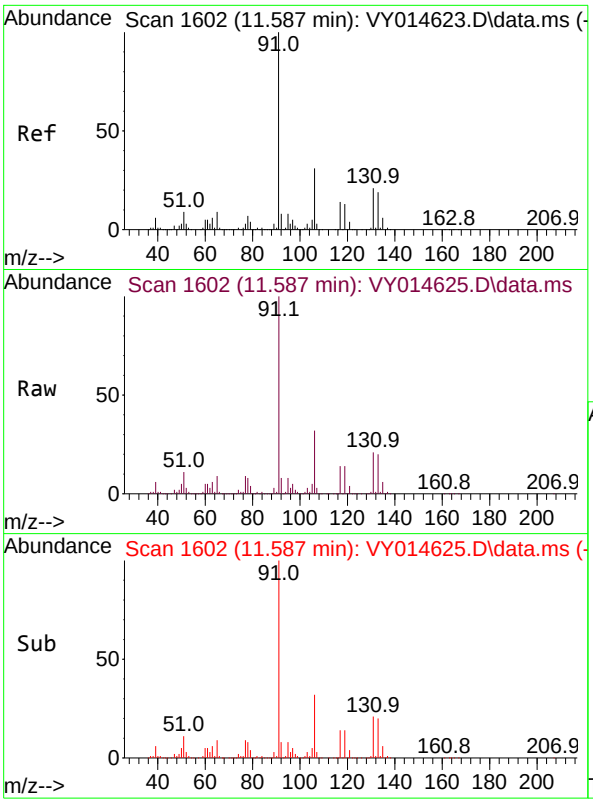


#65
Chlorobenzene
Concen: 142.952 ug/l
RT: 11.514 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:112 Resp: 1528763

Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.5	38.3

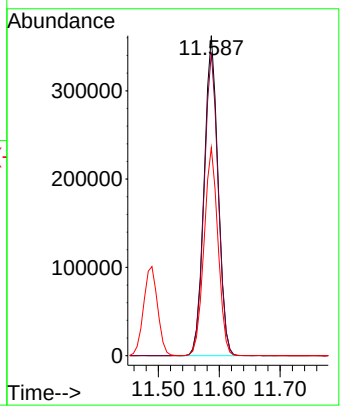




#66
1,1,1,2-Tetrachloroethane
Concen: 142.749 ug/l
RT: 11.587 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:131 Resp: 57558

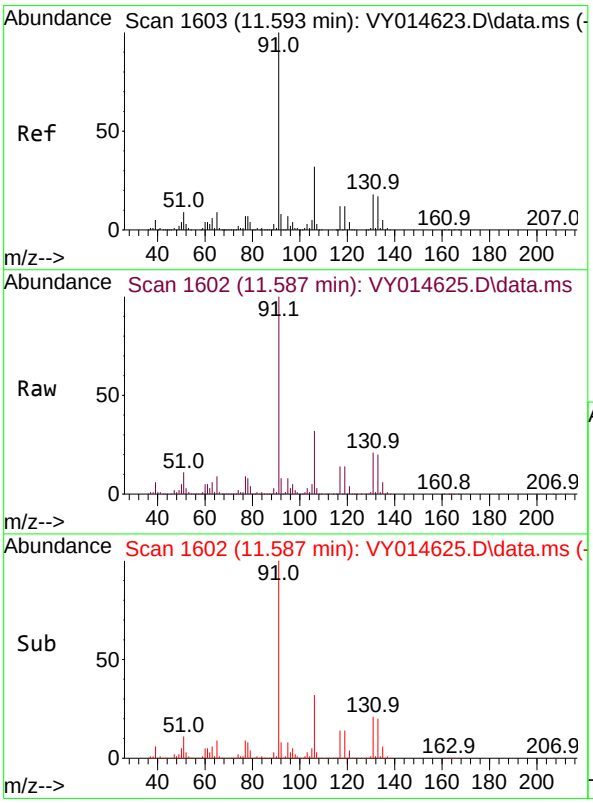
Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.5	142.6
119	65.2	31.6	94.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

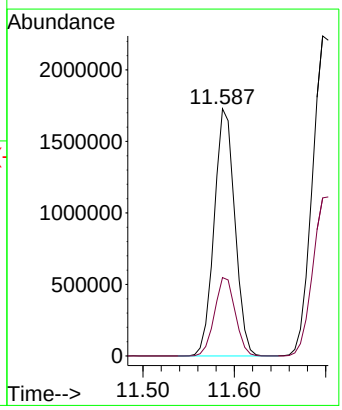
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

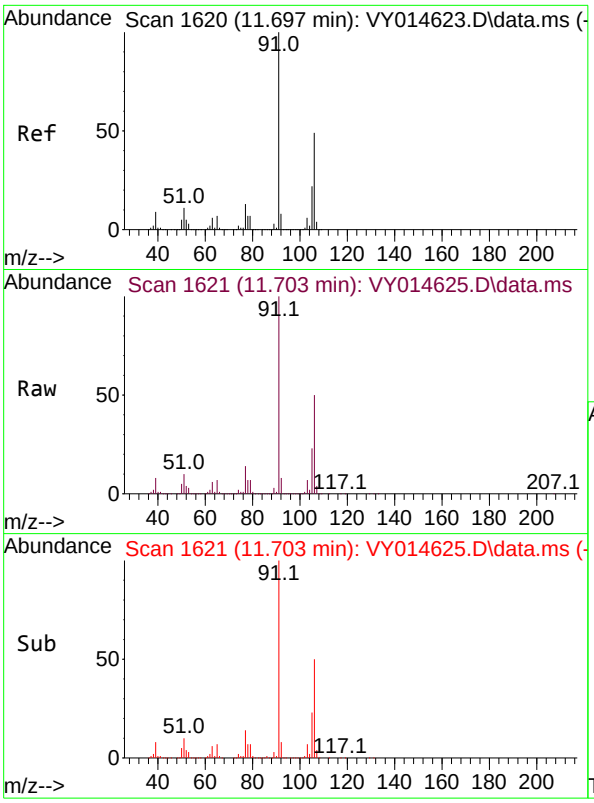


#67
Ethyl Benzene
Concen: 140.469 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 91 Resp: 2712251

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.6	36.8

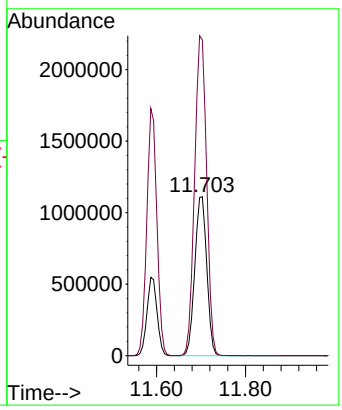




#68
m/p-Xylenes
Concen: 281.644 ug/l
RT: 11.703 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:106 Resp: 207587

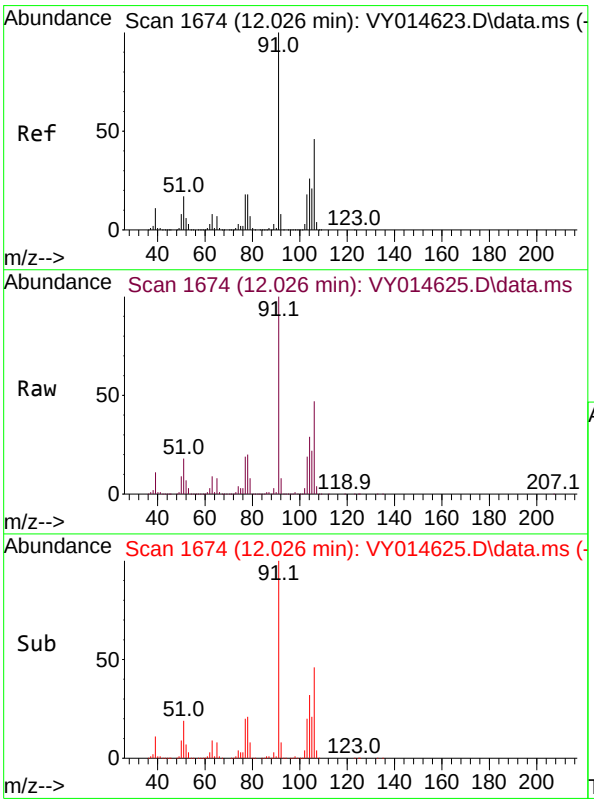
Ion	Ratio	Lower	Upper
106	100		
91	202.0	166.1	249.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

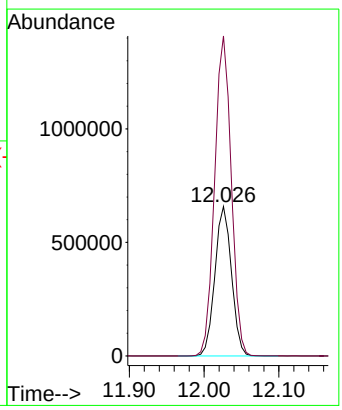
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

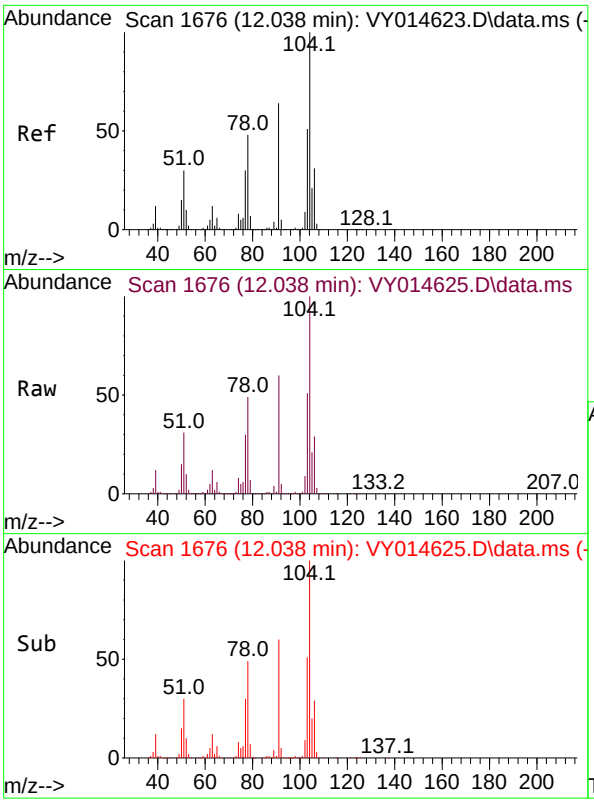


#69
o-Xylene
Concen: 141.305 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:106 Resp: 1014426

Ion	Ratio	Lower	Upper
106	100		
91	215.0	108.1	324.3

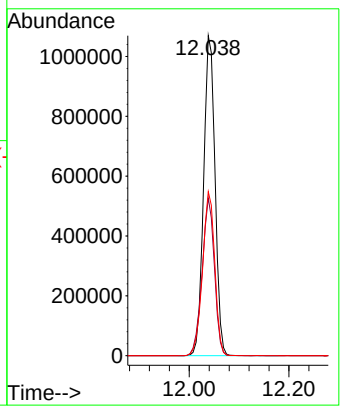




#70
Styrene
Concen: 140.490 ug/l
RT: 12.038 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:104 Resp: 169986

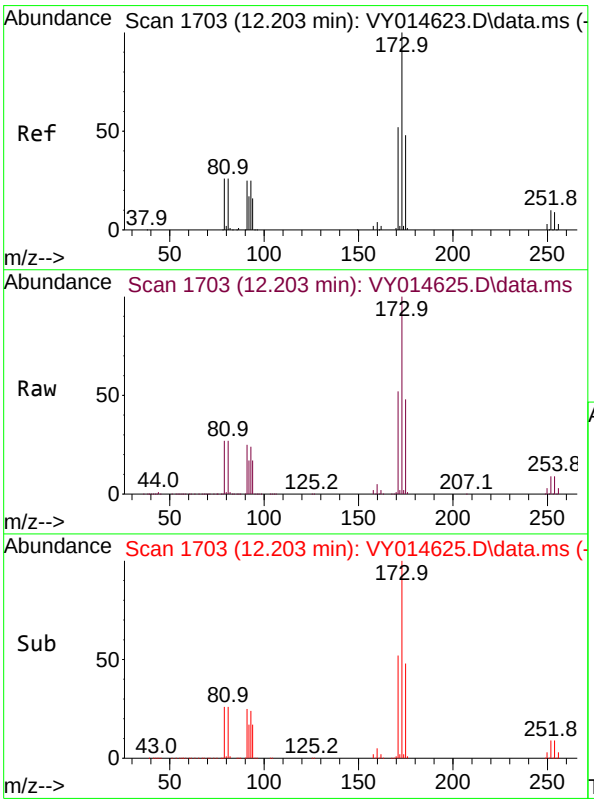
Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.5	62.3
103	54.7	44.6	67.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

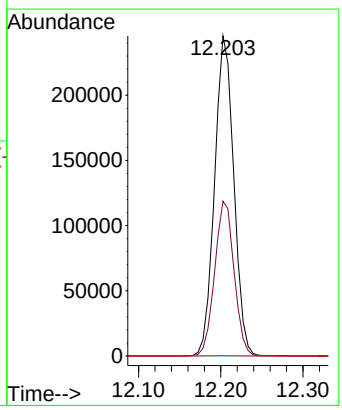
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

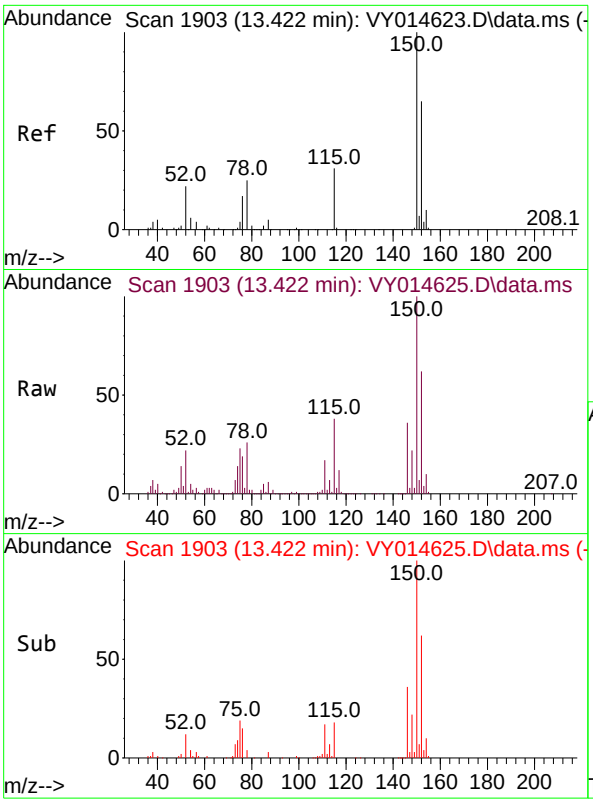


#71
Bromoform
Concen: 145.817 ug/l
RT: 12.203 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:173 Resp: 398537

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	73.8
254	0.1	0.2	0.2#

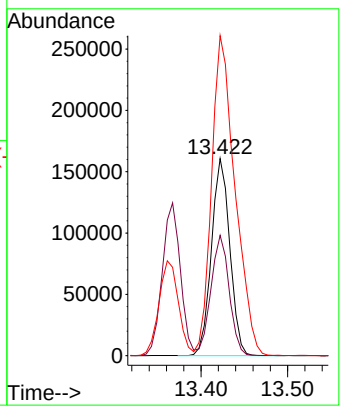




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:152 Resp: 23690

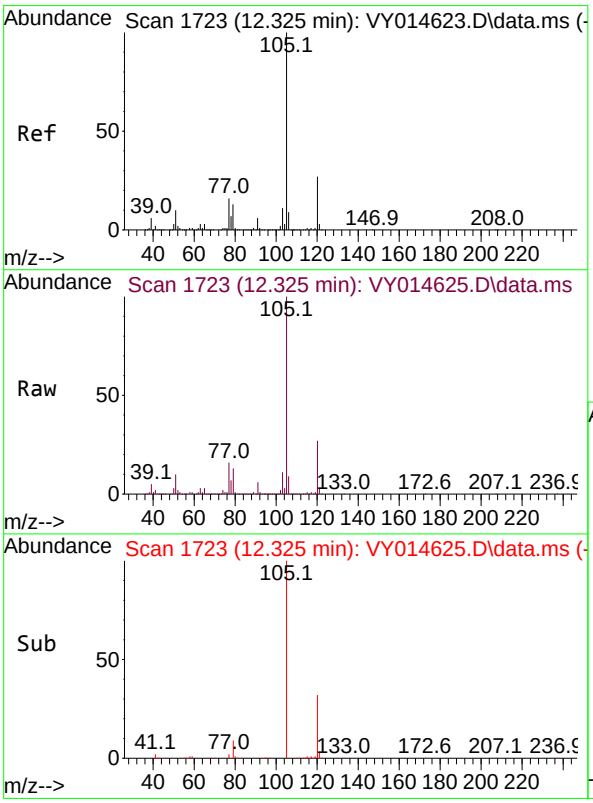
Ion	Ratio	Lower	Upper
152	100		
115	60.9	28.8	86.5
150	207.2	0.0	348.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

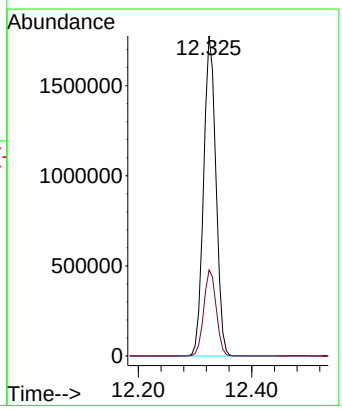
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

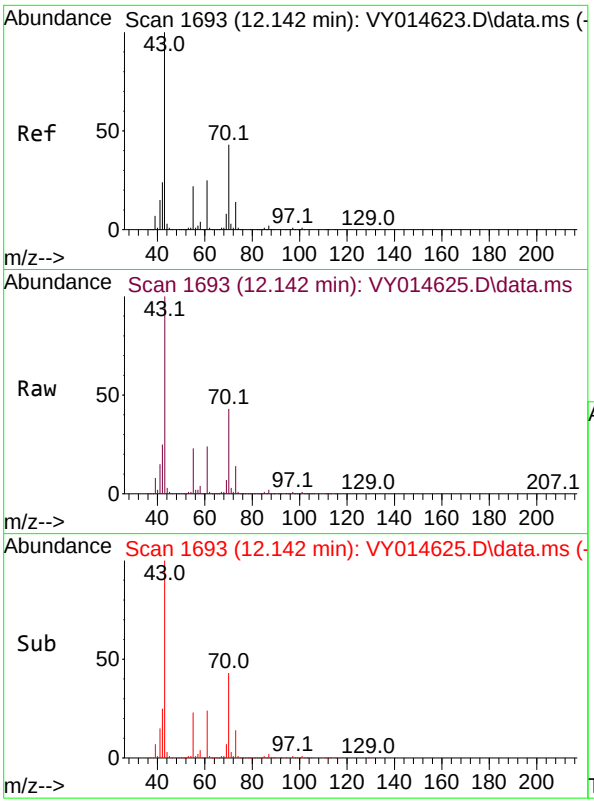


#73
Isopropylbenzene
Concen: 144.497 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:105 Resp: 2680365

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.3	39.9

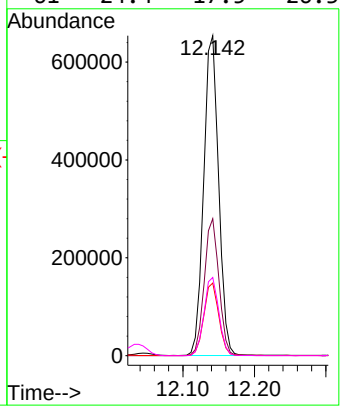




#74
N-amyl acetate
Concen: 152.731 ug/l
RT: 12.142 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 43 Resp: 94885

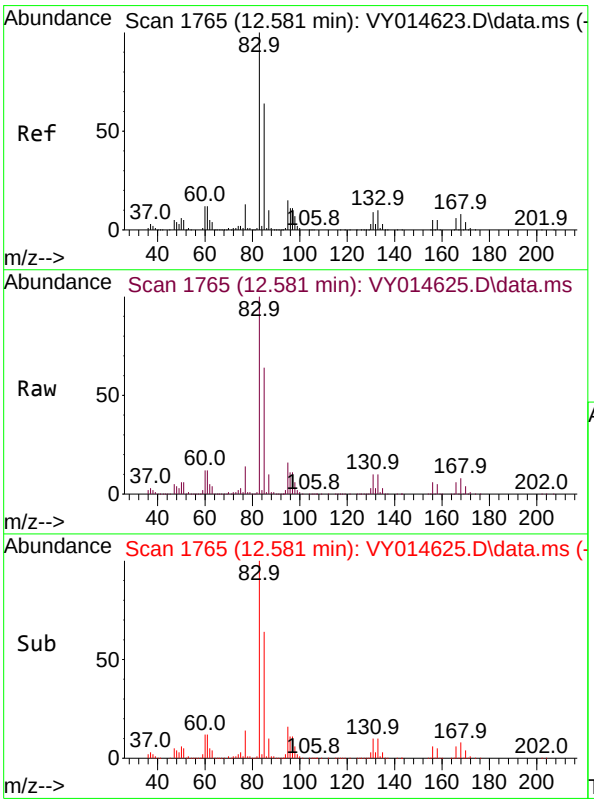
Ion	Ratio	Lower	Upper
43	100		
70	42.2	29.7	44.5
55	22.7	18.3	27.5
61	24.4	17.5	26.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

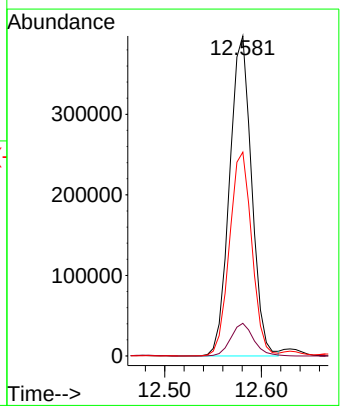
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

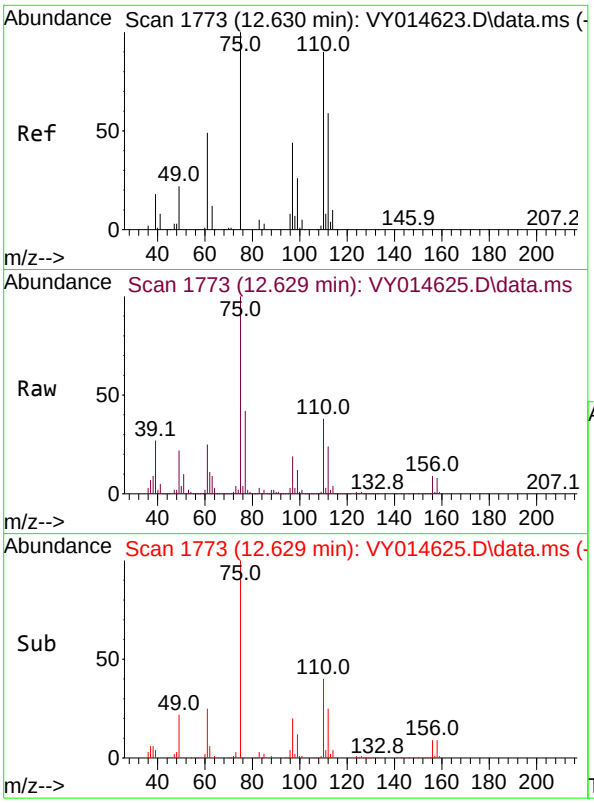


#75
1,1,2,2-Tetrachloroethane
Concen: 148.668 ug/l
RT: 12.581 min Scan# 1765
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 83 Resp: 628884

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.4	16.2
85	64.7	31.8	95.4

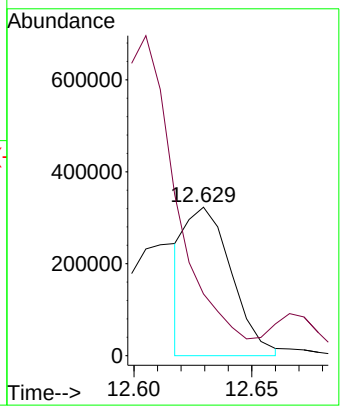




#76
1,2,3-Trichloropropane
Concen: 145.322 ug/l m
RT: 12.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 44057

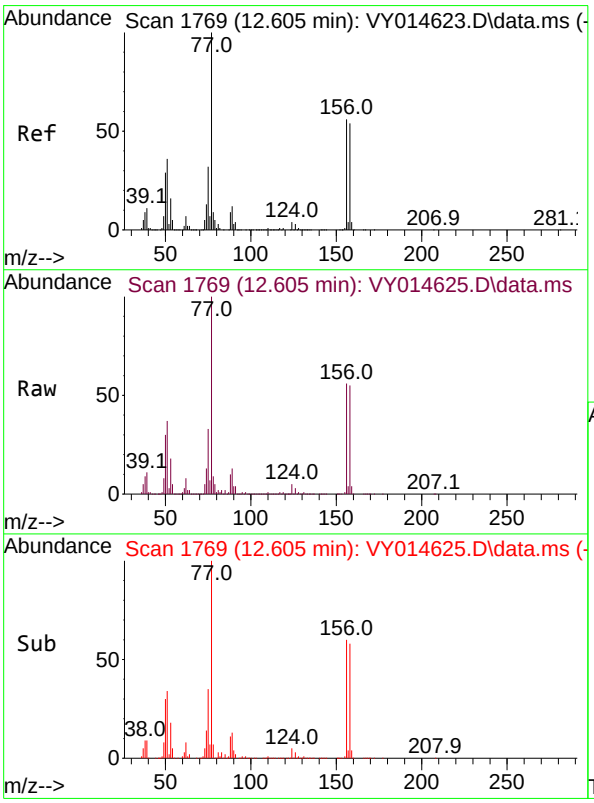
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

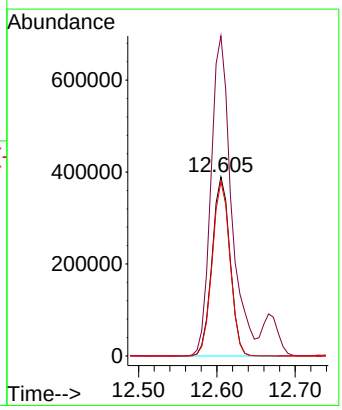
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

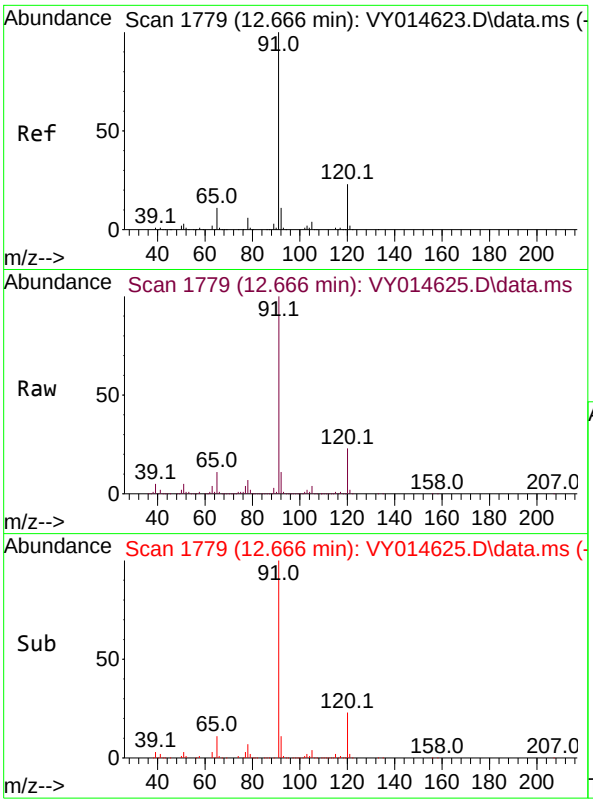


#77
Bromobenzene
Concen: 146.316 ug/l
RT: 12.605 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:156 Resp: 619539

Ion	Ratio	Lower	Upper
156	100		
77	203.2	92.8	278.6
158	96.4	48.4	145.3

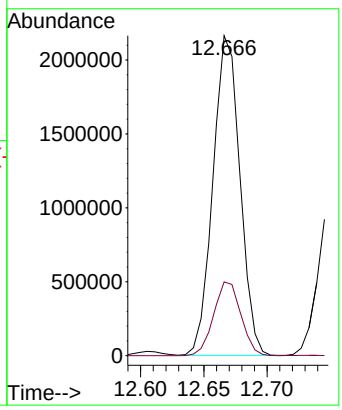




#78
n-propylbenzene
Concen: 143.535 ug/l
RT: 12.666 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 91 Resp: 320836

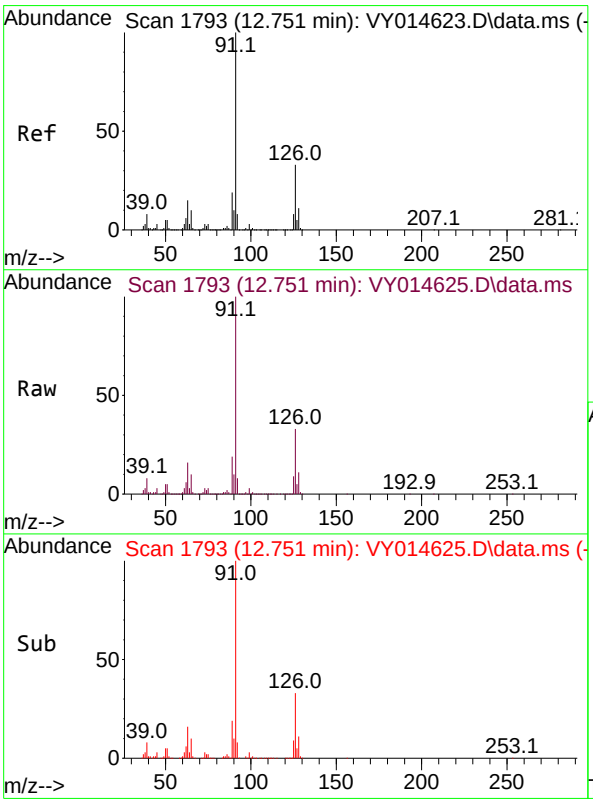
Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

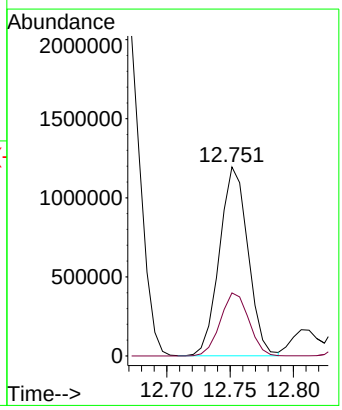
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

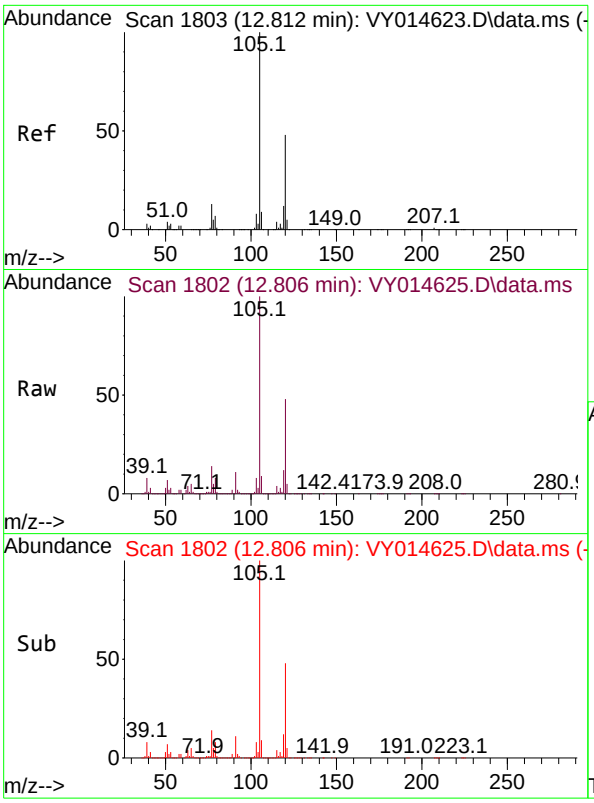


#79
2-Chlorotoluene
Concen: 145.497 ug/l
RT: 12.751 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 91 Resp: 1873221

Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.3	51.7

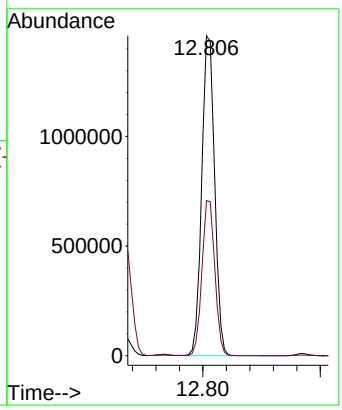




#80
1,3,5-Trimethylbenzene
Concen: 143.695 ug/l
RT: 12.806 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:105 Resp: 222607

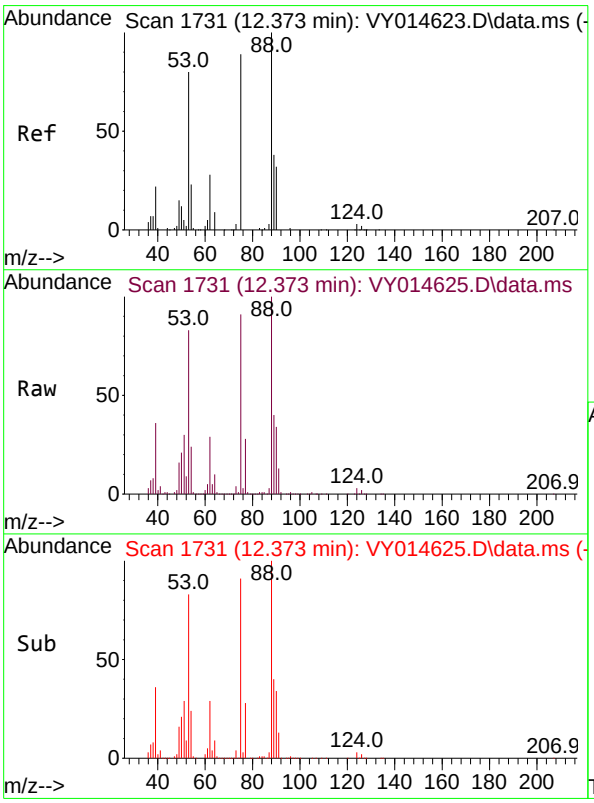
Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.9	71.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

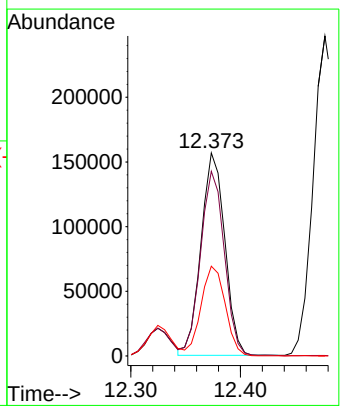
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

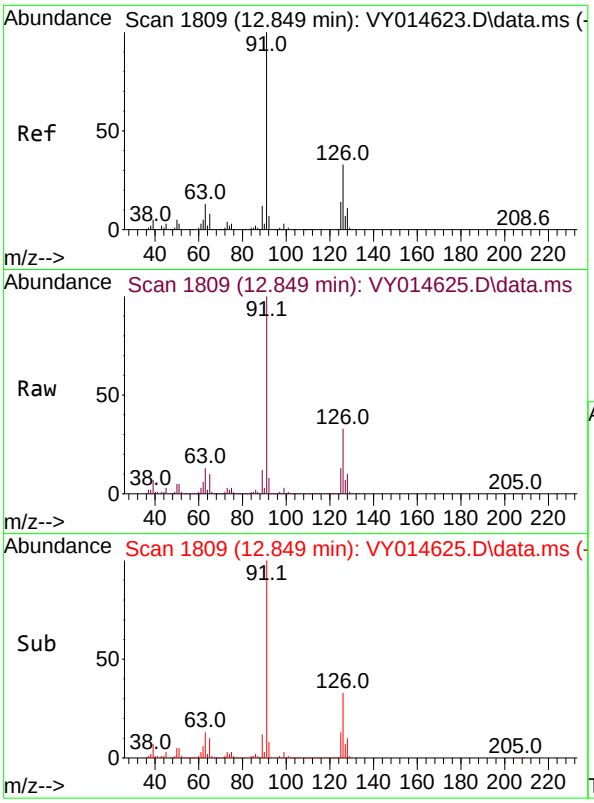


#81
trans-1,4-Dichloro-2-butene
Concen: 152.702 ug/l
RT: 12.373 min Scan# 1731
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 235974

Ion	Ratio	Lower	Upper
75	100		
53	91.4	77.8	116.8
89	44.8	37.4	56.0





#82
4-Chlorotoluene
Concen: 144.795 ug/l
RT: 12.849 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

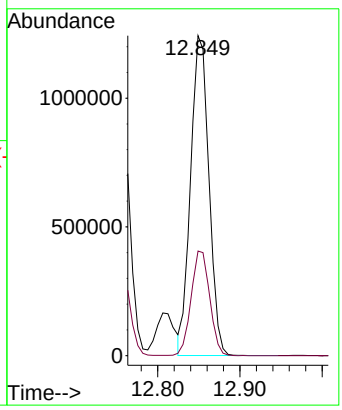
Tgt Ion: 91 Resp: 191992

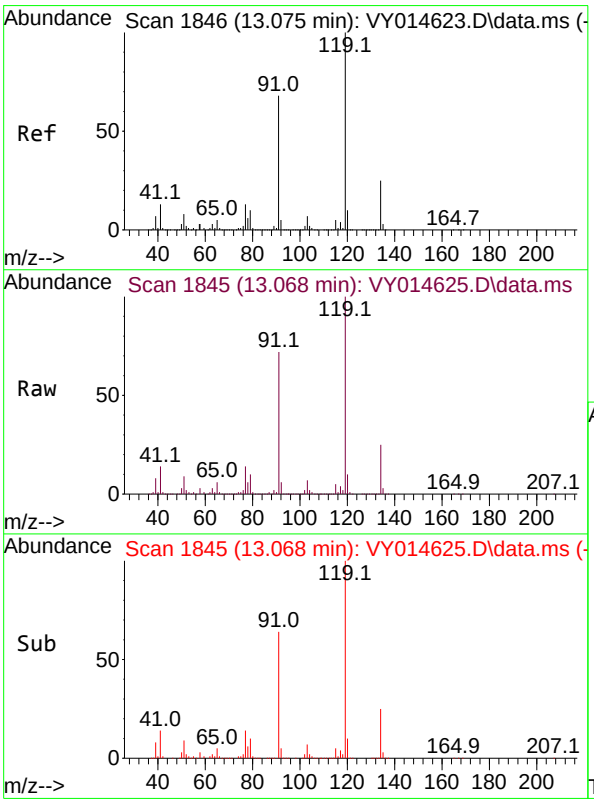
Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.2	51.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

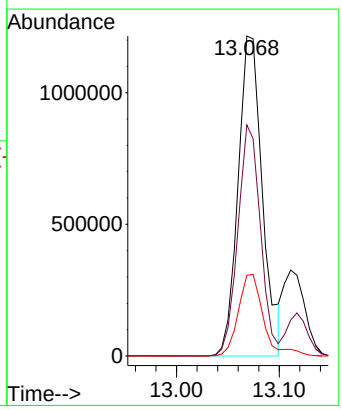


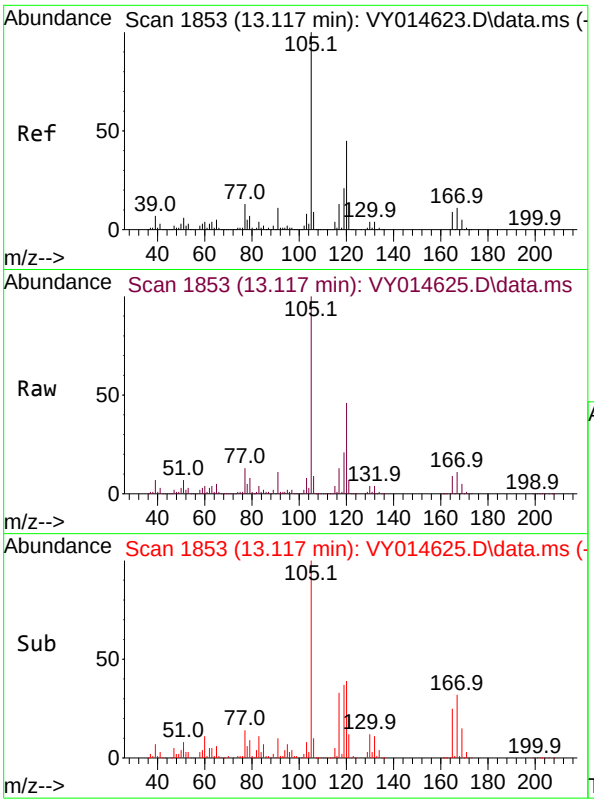


#83
tert-Butylbenzene
Concen: 145.366 ug/l
RT: 13.068 min Scan# 1845
Delta R.T. -0.007 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:119 Resp: 1997624

Ion	Ratio	Lower	Upper
119	100		
91	67.4	32.9	98.6
134	26.3	13.0	38.9

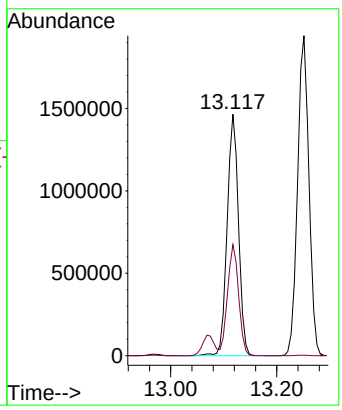




#84
1,2,4-Trimethylbenzene
Concen: 142.820 ug/l
RT: 13.117 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:105 Resp: 217131

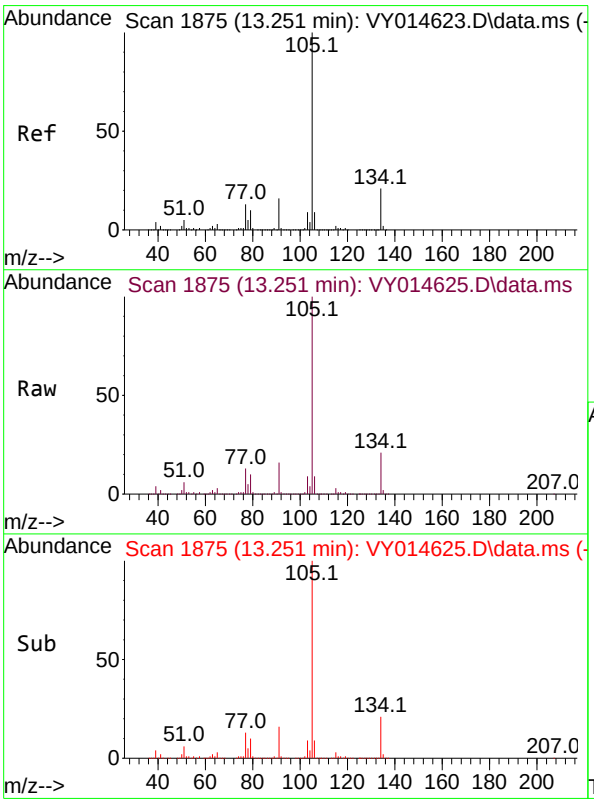
Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.2	66.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

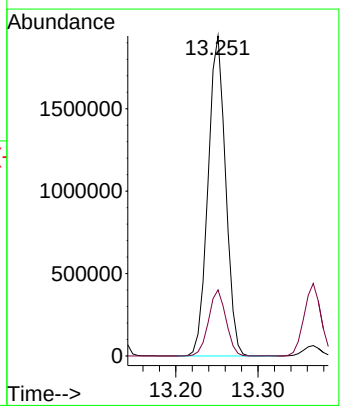
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

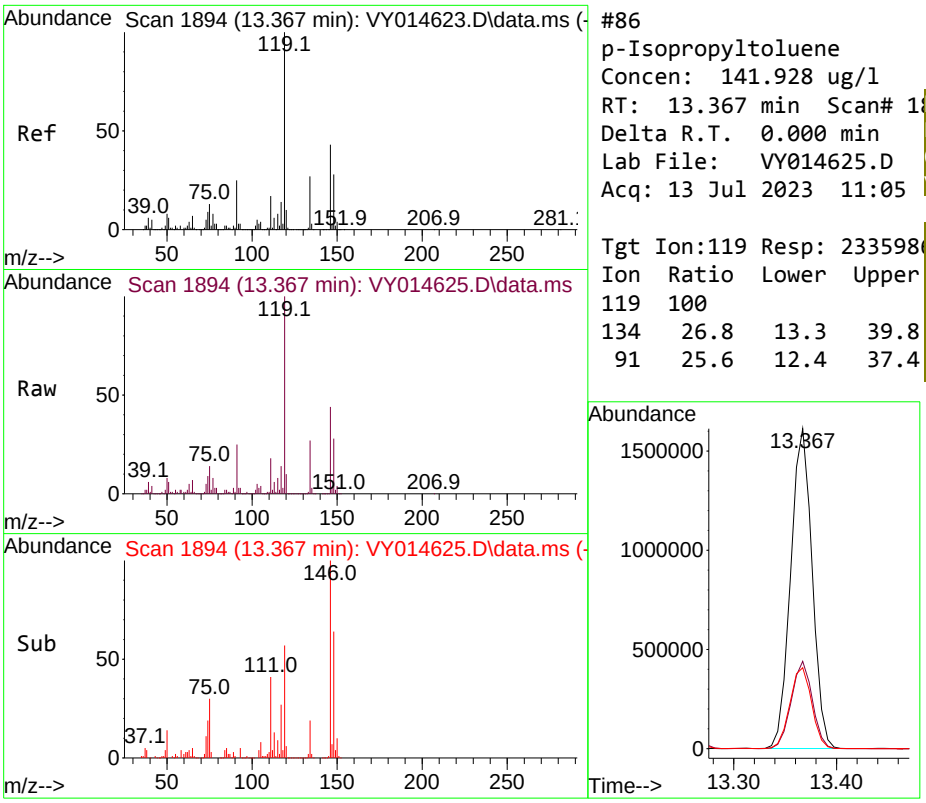


#85
sec-Butylbenzene
Concen: 142.981 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:105 Resp: 2882320

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.6





#86
p-Isopropyltoluene
Concen: 141.928 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

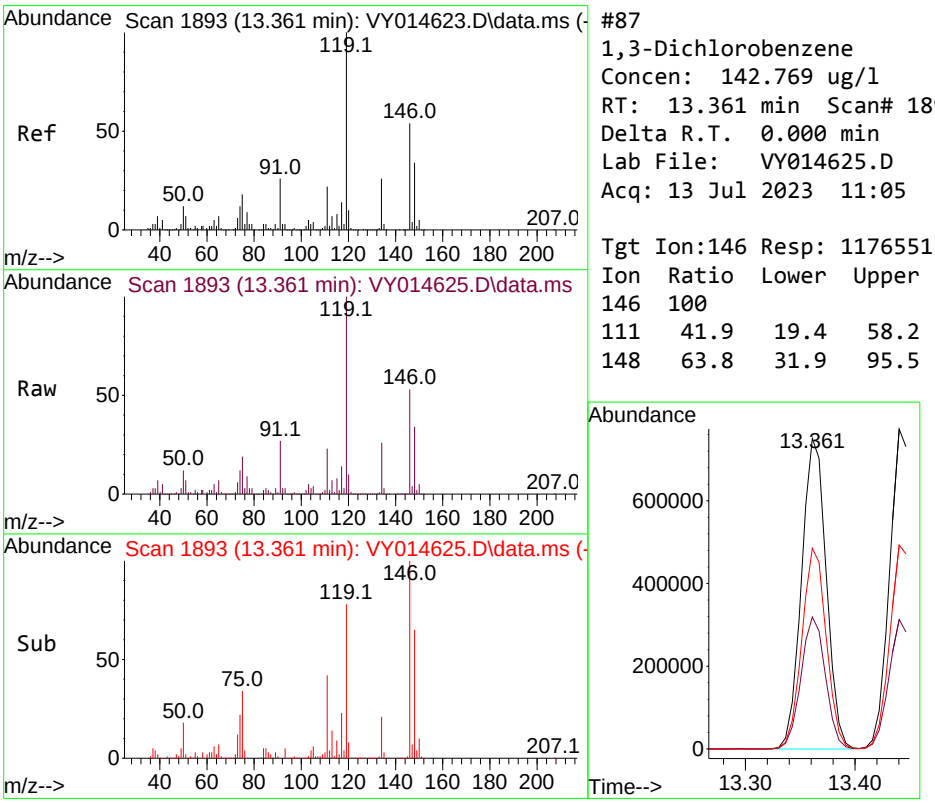
Tgt Ion:119 Resp: 233598

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.3	39.8
91	25.6	12.4	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

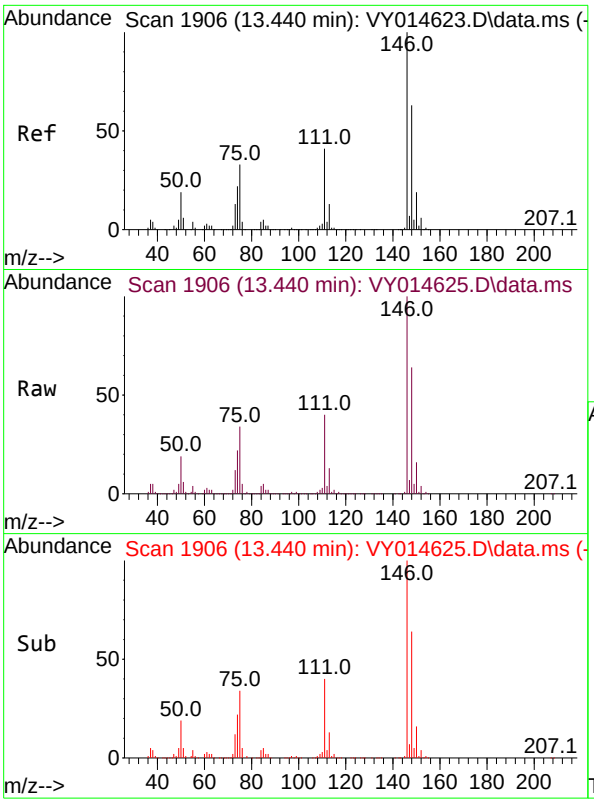
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#87
1,3-Dichlorobenzene
Concen: 142.769 ug/l
RT: 13.361 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:146 Resp: 1176551

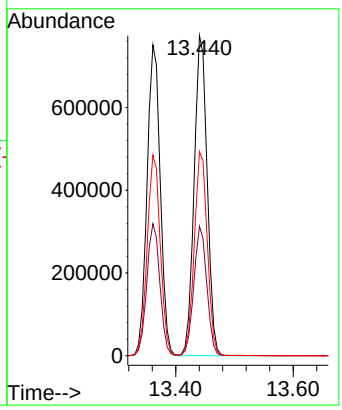
Ion	Ratio	Lower	Upper
146	100		
111	41.9	19.4	58.2
148	63.8	31.9	95.5



#88
1,4-Dichlorobenzene
Concen: 144.142 ug/l
RT: 13.440 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:146 Resp: 119033

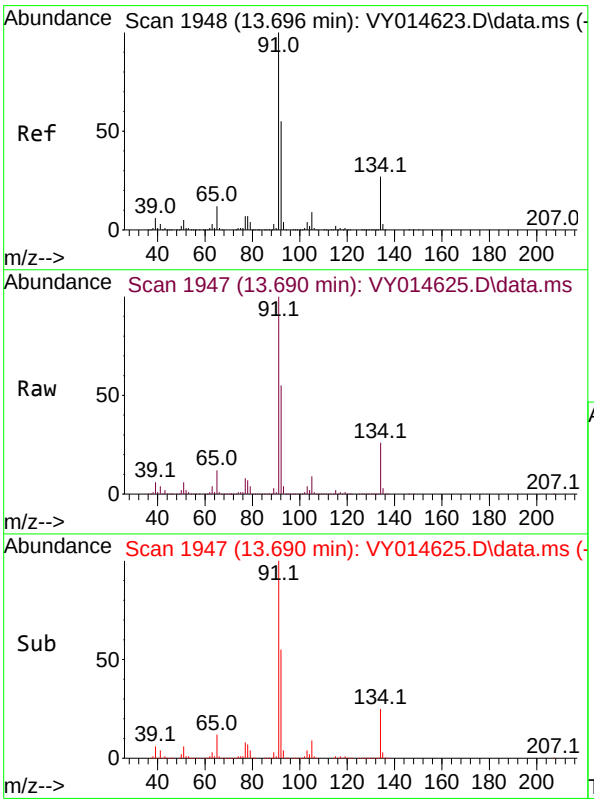
Ion	Ratio	Lower	Upper
146	100		
111	40.1	18.9	56.7
148	63.7	32.1	96.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

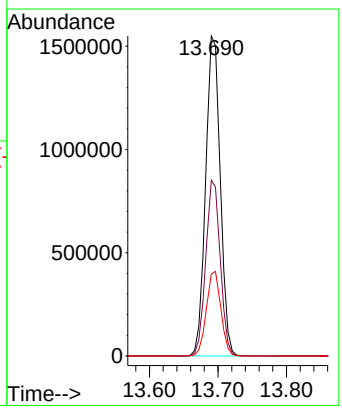
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

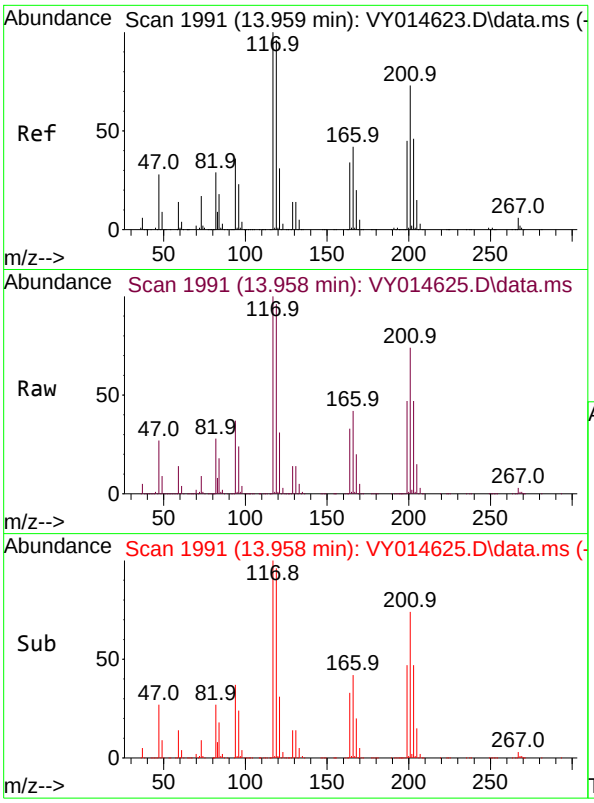


#89
n-Butylbenzene
Concen: 143.838 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. -0.006 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 91 Resp: 2303273

Ion	Ratio	Lower	Upper
91	100		
92	54.6	25.4	76.0
134	26.3	12.6	37.6





#90
Hexachloroethane
Concen: 146.394 ug/l
RT: 13.958 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

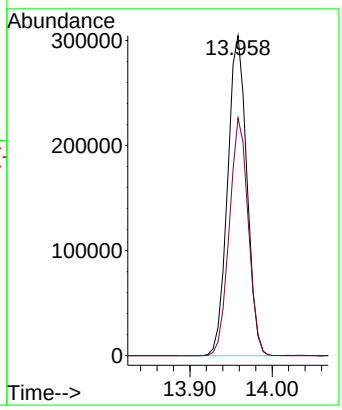
Tgt Ion:117 Resp: 494909

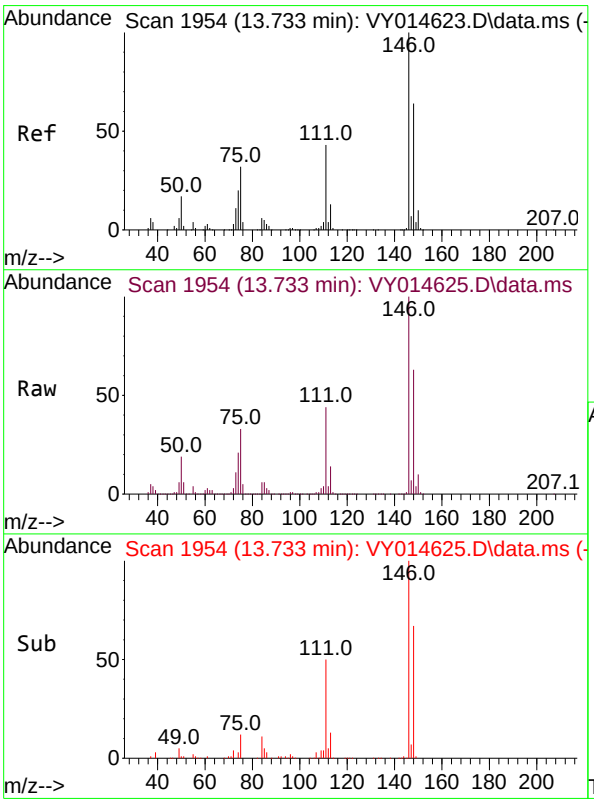
Ion	Ratio	Lower	Upper
117	100		
201	73.1	41.6	124.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

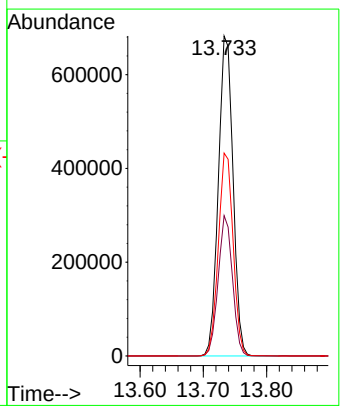


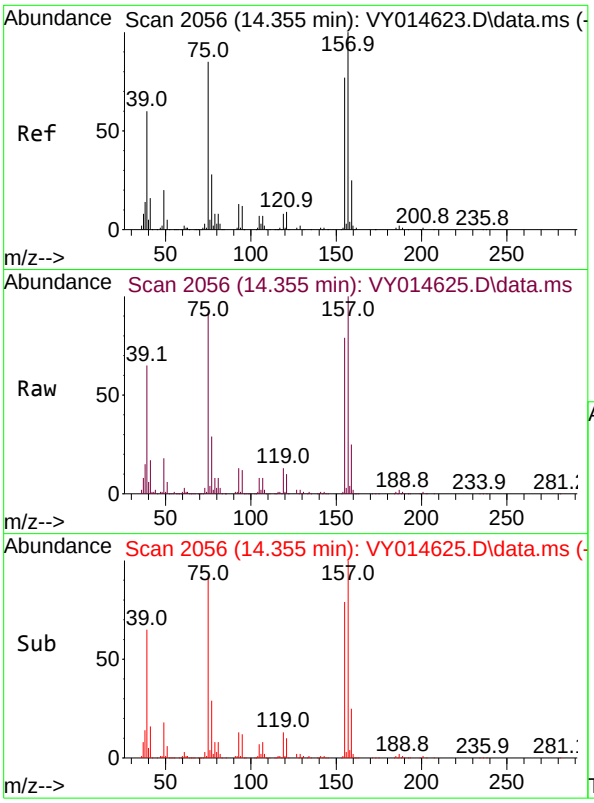


#91
1,2-Dichlorobenzene
Concen: 144.725 ug/l
RT: 13.733 min Scan# 1954
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:146 Resp: 1092720

Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.7	59.0
148	63.5	32.0	96.2

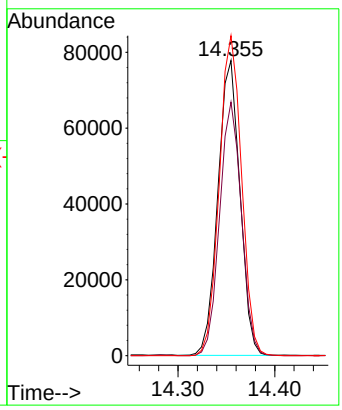




#92
1,2-Dibromo-3-Chloropropane
Concen: 151.735 ug/l
RT: 14.355 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion: 75 Resp: 12274

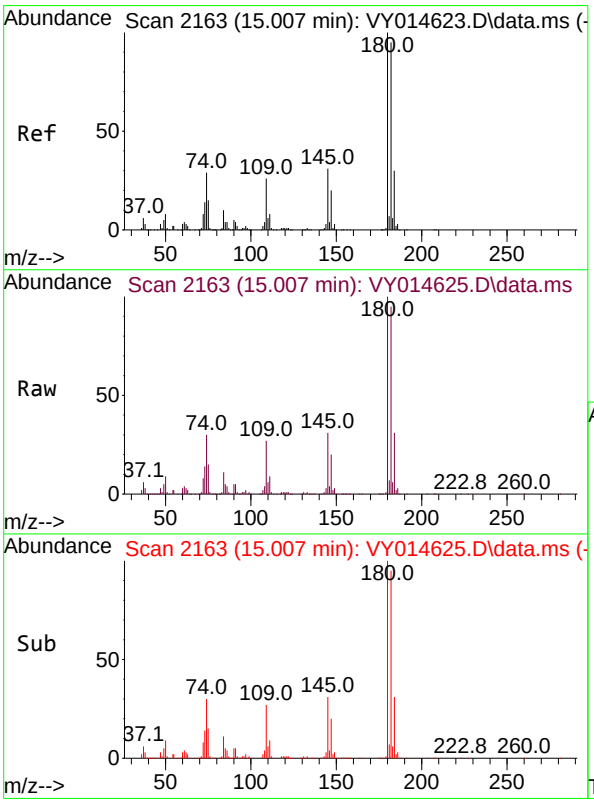
Ion	Ratio	Lower	Upper
75	100		
155	85.1	41.5	124.6
157	109.8	51.8	155.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

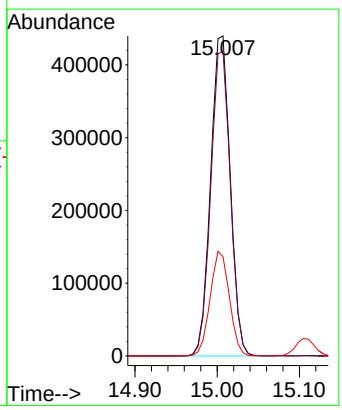
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

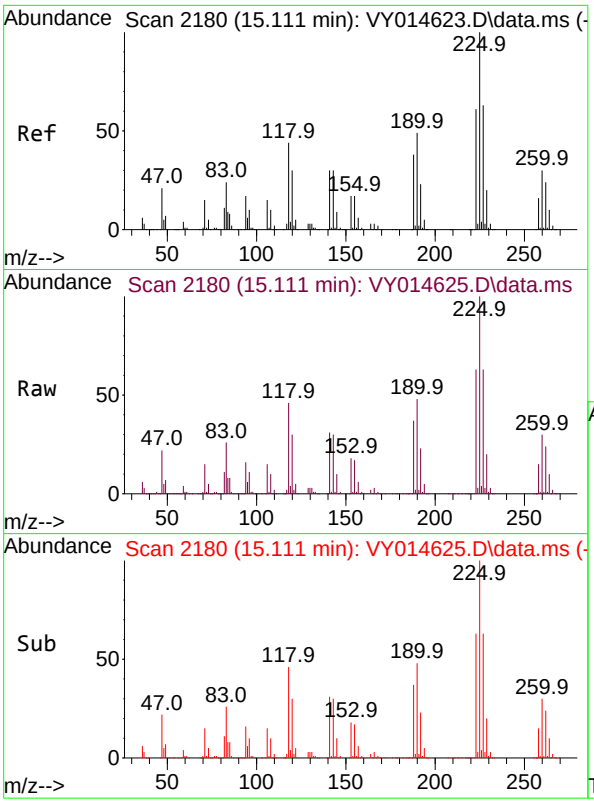


#93
1,2,4-Trichlorobenzene
Concen: 152.089 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:180 Resp: 728944

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.0	141.2
145	32.2	14.5	43.5

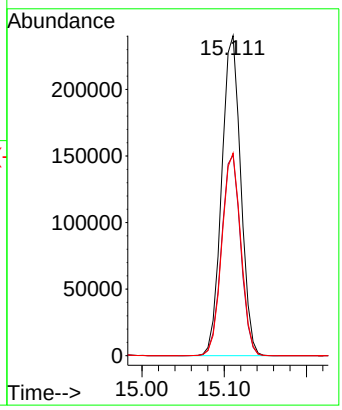




#94
Hexachlorobutadiene
Concen: 147.106 ug/l
RT: 15.111 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:225 Resp: 38745

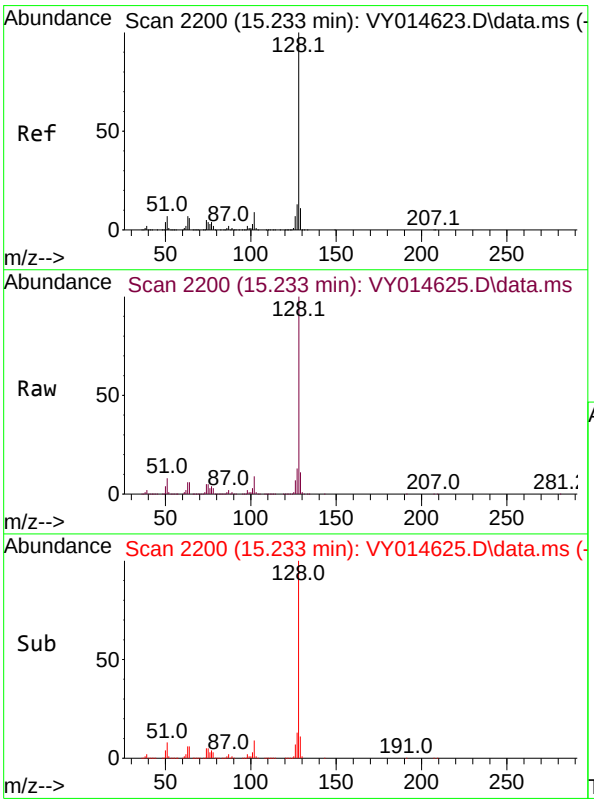
Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.9
227	63.1	33.0	98.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

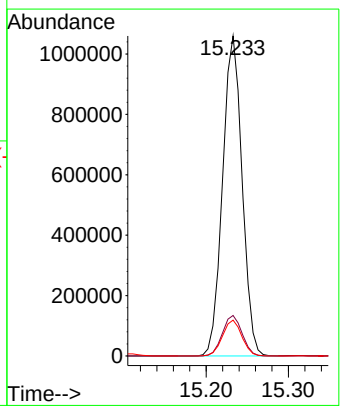
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

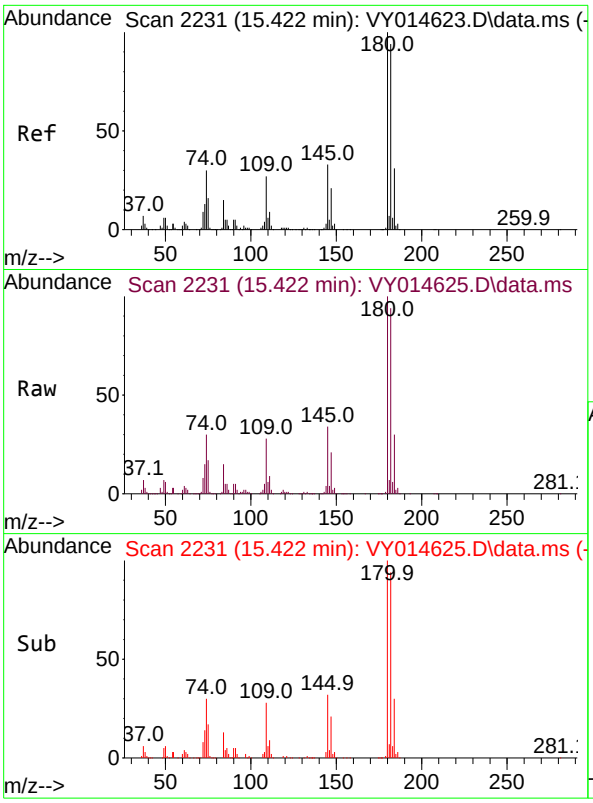


#95
Naphthalene
Concen: 156.503 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:128 Resp: 1747562

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	11.1	8.6	13.0

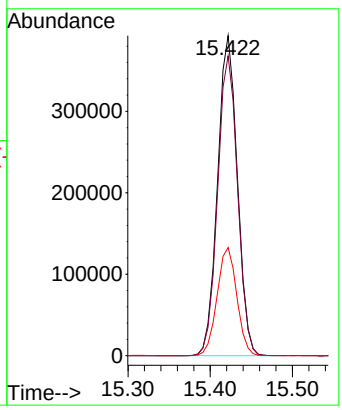




#96
1,2,3-Trichlorobenzene
Concen: 154.296 ug/l
RT: 15.422 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014625.D
Acq: 13 Jul 2023 11:05

Tgt Ion:180 Resp: 65724

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	141.8
145	33.8	15.4	46.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014627.D
Acq On : 13 Jul 2023 13:31
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:01:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.783	168	336411	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	565079	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	497350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	248140	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	82406	21.496	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	43.000%#		
35) Dibromofluoromethane	7.703	113	75792	21.070	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	42.140%#		
50) Toluene-d8	10.173	98	278928	21.032	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	42.060%#		
62) 4-Bromofluorobenzene	12.477	95	105822	20.810	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	41.620%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	49441	18.039	ug/l	96
3) Chloromethane	2.107	50	60904	19.768	ug/l	99
4) Vinyl Chloride	2.241	62	66927	19.437	ug/l	94
5) Bromomethane	2.631	94	46818	20.575	ug/l	97
6) Chloroethane	2.777	64	43198	20.085	ug/l	93
7) Trichlorofluoromethane	3.113	101	112596	19.470	ug/l	98
8) Diethyl Ether	3.521	74	45343	21.074	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.887	101	68811	19.413	ug/l	96
10) Methyl Iodide	4.076	142	70675	20.287	ug/l	97
11) Tert butyl alcohol	4.942	59	108728	126.848	ug/l #	92
12) 1,1-Dichloroethene	3.857	96	65904	19.894	ug/l	92
13) Acrolein	3.716	56	42525	106.132	ug/l	100
14) Allyl chloride	4.466	41	118961	20.224	ug/l	94
15) Acrylonitrile	5.149	53	132508	111.680	ug/l	97
16) Acetone	3.936	43	146145	120.304	ug/l	94
17) Carbon Disulfide	4.180	76	182889	19.283	ug/l	100
18) Methyl Acetate	4.466	43	102231	21.929	ug/l	94
19) Methyl tert-butyl Ether	5.204	73	229063	21.286	ug/l	99
20) Methylene Chloride	4.698	84	95399	21.791	ug/l	94
21) trans-1,2-Dichloroethene	5.204	96	75310	20.032	ug/l	100
22) Diisopropyl ether	6.112	45	248945	20.817	ug/l	91
23) Vinyl Acetate	6.045	43	764128	106.775	ug/l	96
24) 1,1-Dichloroethane	6.003	63	141257	20.644	ug/l	98
25) 2-Butanone	6.972	43	206994	116.469	ug/l	99
26) 2,2-Dichloropropane	6.972	77	135191	20.730	ug/l	99
27) cis-1,2-Dichloroethene	6.972	96	89452	20.441	ug/l	99
28) Bromochloromethane	7.325	49	57018	19.348	ug/l	95
29) Tetrahydrofuran	7.338	42	122362	111.813	ug/l	94
30) Chloroform	7.496	83	147319	20.878	ug/l	98
31) Cyclohexane	7.777	56	121492	19.091	ug/l	90
32) 1,1,1-Trichloroethane	7.691	97	127725	20.112	ug/l	99
36) 1,1-Dichloropropene	7.911	75	106099	19.723	ug/l	99
37) Ethyl Acetate	7.063	43	81307	21.953	ug/l #	94
38) Carbon Tetrachloride	7.892	117	111763	19.654	ug/l	99
39) Methylcyclohexane	9.179	83	134877	19.245	ug/l	96
40) Benzene	8.149	78	312574	20.431	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014627.D
Acq On : 13 Jul 2023 13:31
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 02:01:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.307	41	44594m	22.768	ug/l		
42) 1,2-Dichloroethane	8.228	62	100533	20.750	ug/l		93
43) Isopropyl Acetate	8.264	43	151878	21.527	ug/l		97
44) Trichloroethene	8.935	130	87579	20.459	ug/l		97
45) 1,2-Dichloropropane	9.209	63	82540	20.661	ug/l		95
46) Dibromomethane	9.301	93	50553	20.859	ug/l		96
47) Bromodichloromethane	9.490	83	117797	20.622	ug/l		99
48) Methyl methacrylate	9.289	41	67029	21.114	ug/l		92
49) 1,4-Dioxane	9.289	88	18478	467.577	ug/l	#	46
51) 4-Methyl-2-Pentanone	10.063	43	411765	111.158	ug/l		94
52) Toluene	10.240	92	201402	20.572	ug/l		93
53) t-1,3-Dichloropropene	10.459	75	129624	20.746	ug/l		99
54) cis-1,3-Dichloropropene	9.923	75	140222	20.637	ug/l		95
55) 1,1,2-Trichloroethane	10.642	97	70252	20.809	ug/l		97
56) Ethyl methacrylate	10.502	69	110555	21.448	ug/l		91
57) 1,3-Dichloropropane	10.782	76	122212	20.988	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.776	63	237189	98.758	ug/l		95
59) 2-Hexanone	10.825	43	307492	113.827	ug/l		92
60) Dibromochloromethane	10.977	129	86307	20.851	ug/l		98
61) 1,2-Dibromoethane	11.081	107	71136	21.122	ug/l		100
64) Tetrachloroethene	10.715	164	83277	20.819	ug/l		98
65) Chlorobenzene	11.514	112	217967	20.566	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.587	131	83727	20.952	ug/l		99
67) Ethyl Benzene	11.587	91	390374	20.401	ug/l		100
68) m/p-Xylenes	11.697	106	302042	41.350	ug/l		96
69) o-Xylene	12.026	106	145293	20.422	ug/l		100
70) Styrene	12.038	104	249927	20.843	ug/l		98
71) Bromoform	12.203	173	58516	21.603	ug/l	#	98
73) Isopropylbenzene	12.325	105	384943	19.812	ug/l		100
74) N-amyl acetate	12.142	43	135582	20.835	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.581	83	92533	20.884	ug/l		100
76) 1,2,3-Trichloropropane	12.629	75	63372m	19.956	ug/l		
77) Bromobenzene	12.605	156	90496	20.404	ug/l		93
78) n-propylbenzene	12.666	91	463351	19.791	ug/l		99
79) 2-Chlorotoluene	12.751	91	268440	19.906	ug/l		99
80) 1,3,5-Trimethylbenzene	12.806	105	324719	20.012	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.373	75	33446	20.663	ug/l		94
82) 4-Chlorotoluene	12.849	91	279148	20.099	ug/l		98
83) tert-Butylbenzene	13.074	119	286669	19.916	ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	320020	20.096	ug/l		99
85) sec-Butylbenzene	13.251	105	423193	20.042	ug/l		100
86) p-Isopropyltoluene	13.367	119	349989	20.301	ug/l		100
87) 1,3-Dichlorobenzene	13.361	146	177848	20.604	ug/l		98
88) 1,4-Dichlorobenzene	13.440	146	176391	20.392	ug/l		97
89) n-Butylbenzene	13.690	91	334330	19.933	ug/l		96
90) Hexachloroethane	13.958	117	71176	20.100	ug/l		87
91) 1,2-Dichlorobenzene	13.739	146	162475	20.545	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	18028	21.276	ug/l		97
93) 1,2,4-Trichlorobenzene	15.007	180	103641	20.645	ug/l		98
94) Hexachlorobutadiene	15.111	225	55533	20.130	ug/l		98
95) Naphthalene	15.233	128	248614	21.256	ug/l		98
96) 1,2,3-Trichlorobenzene	15.422	180	93460	20.947	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014627.D
Acq On : 13 Jul 2023 13:31
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 02:01:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

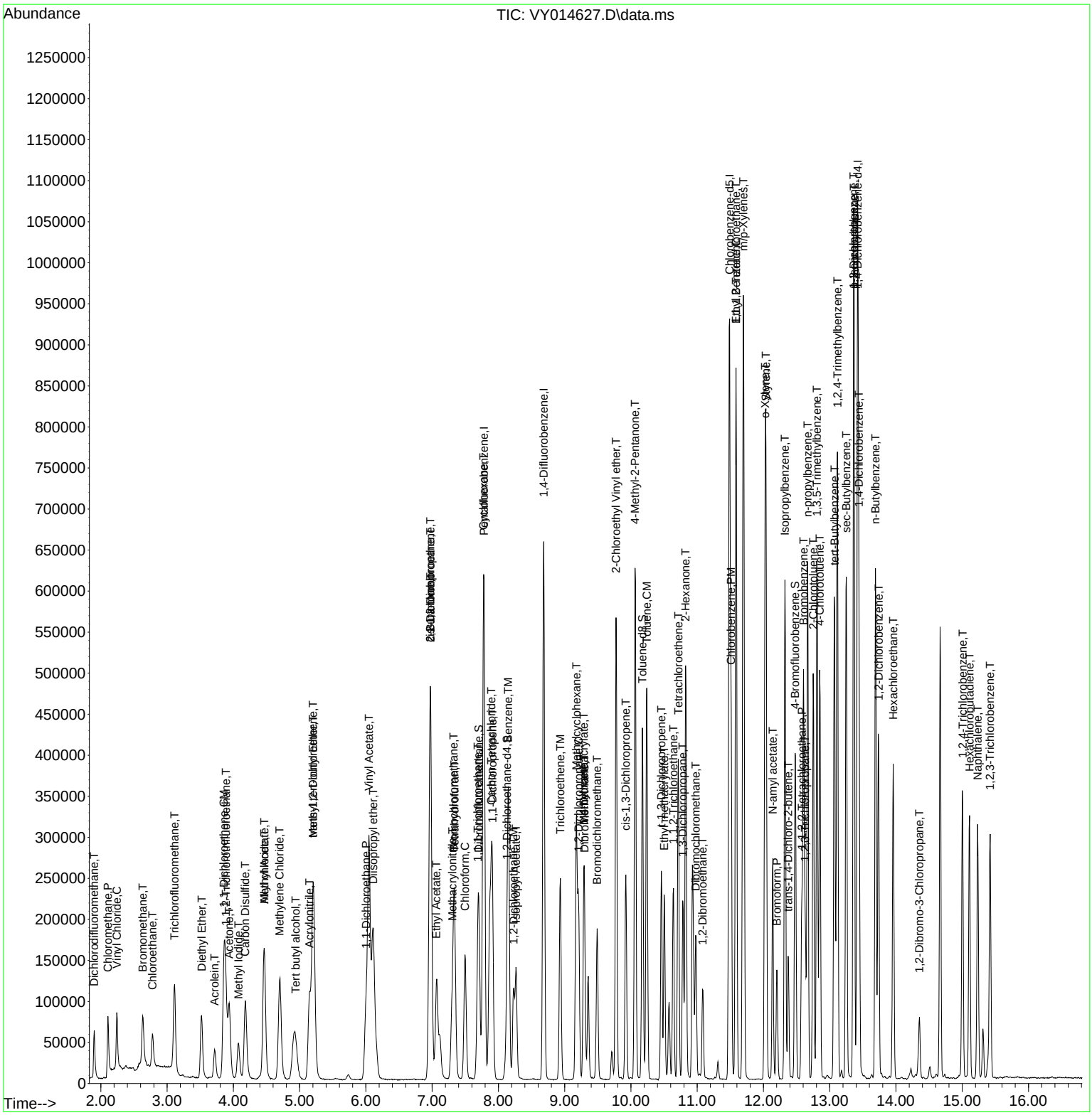
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014627.D
Acq On : 13 Jul 2023 13:31
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

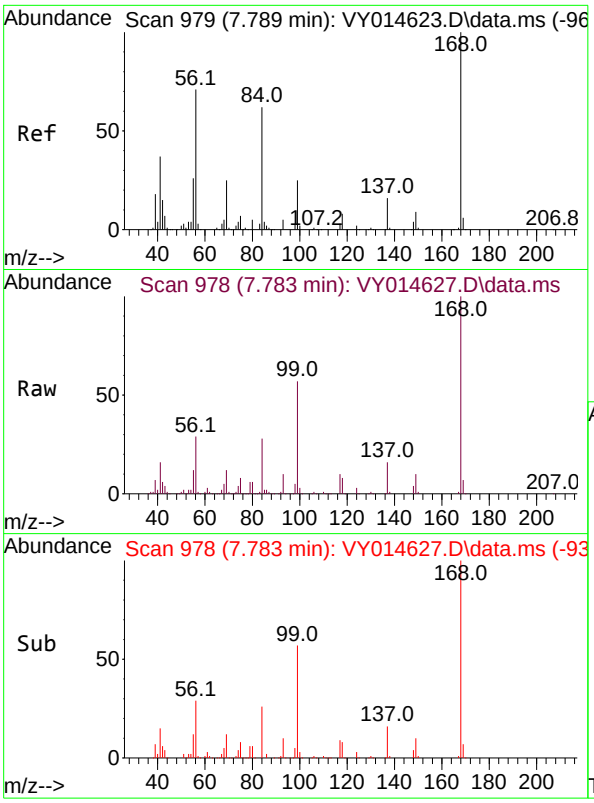
Quant Time: Jul 14 02:01:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 01:52:00 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

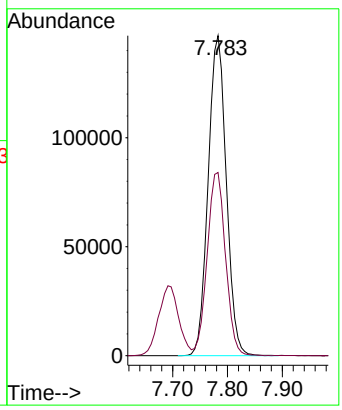




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:168 Resp: 33641

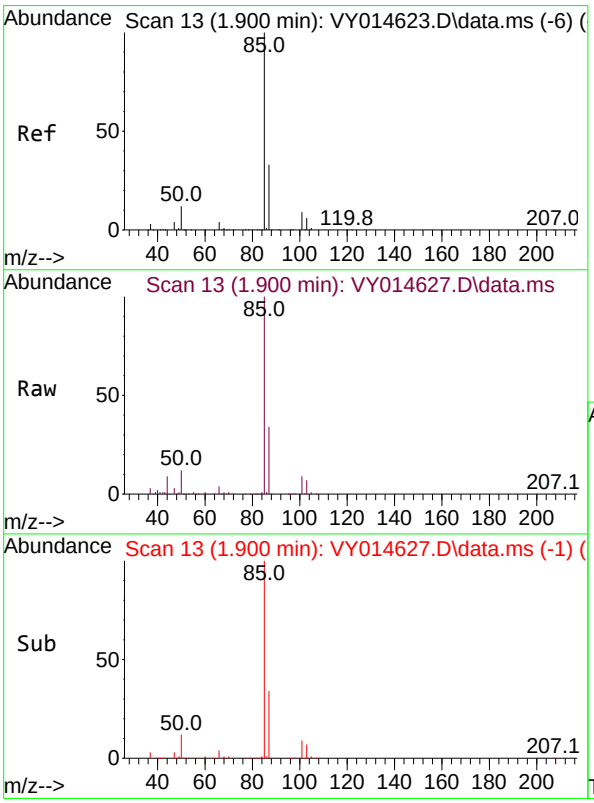
Ion	Ratio	Lower	Upper
168	100		
99	57.2	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

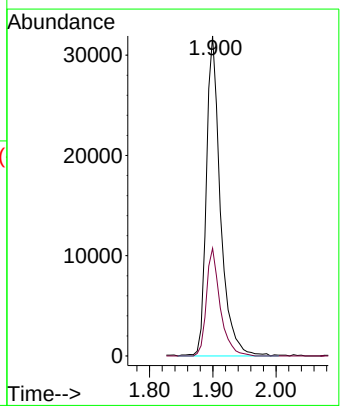
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

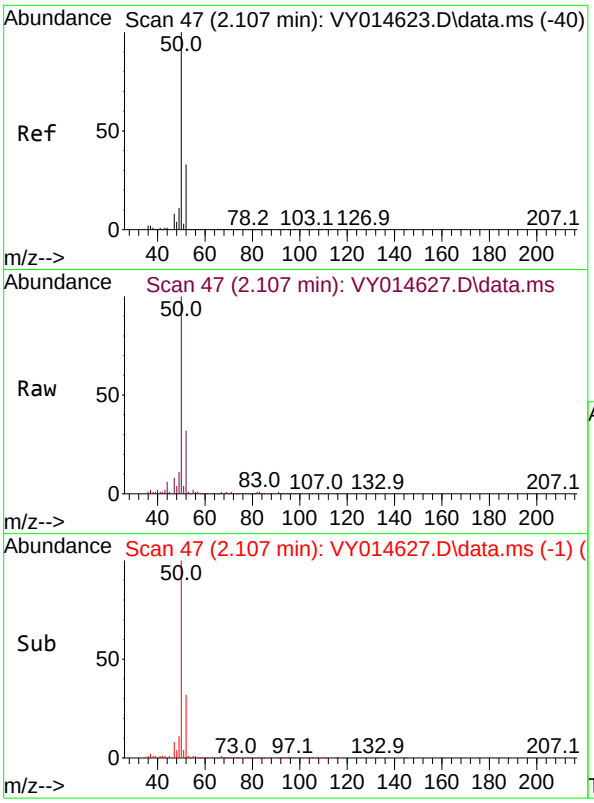


#2
Dichlorodifluoromethane
Concen: 18.039 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 85 Resp: 49441

Ion	Ratio	Lower	Upper
85	100		
87	33.6	15.6	46.8

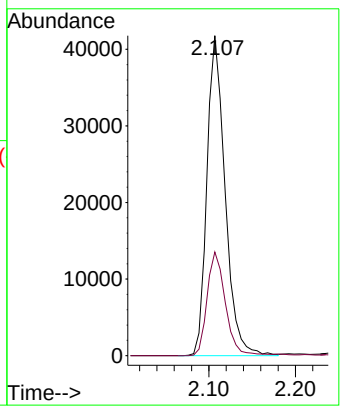




#3
Chloromethane
Concen: 19.768 ug/l
RT: 2.107 min Scan# 4
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 50 Resp: 6090

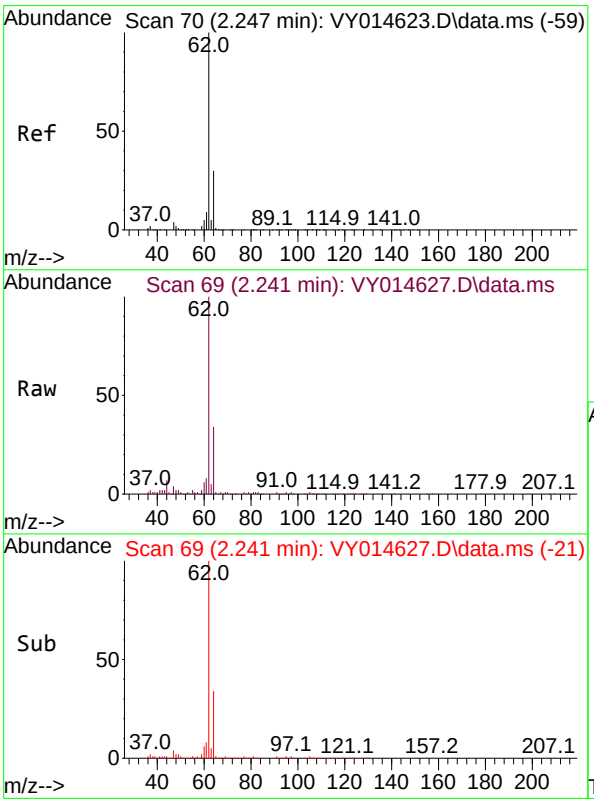
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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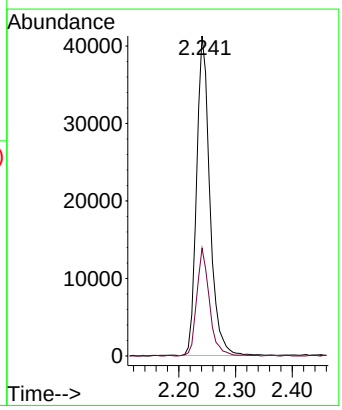
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

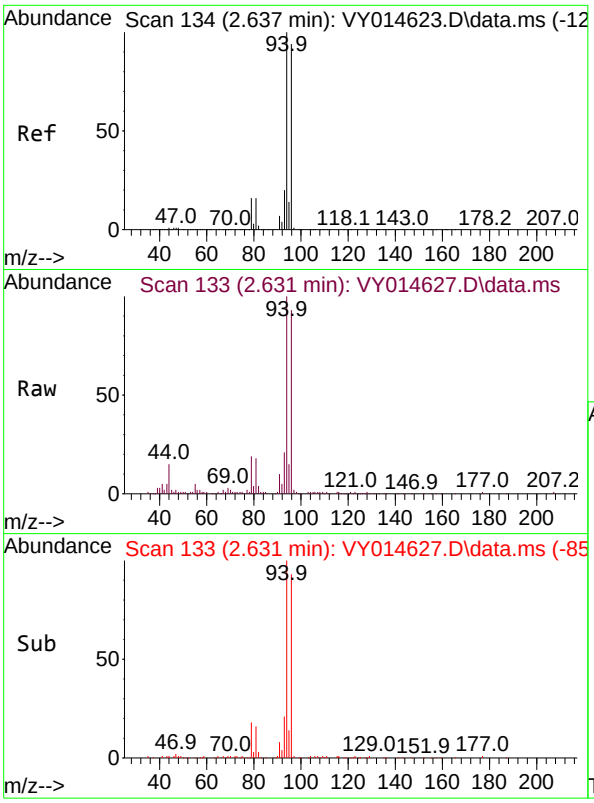


#4
Vinyl Chloride
Concen: 19.437 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 62 Resp: 66927

Ion	Ratio	Lower	Upper
62	100		
64	33.7	24.3	36.5

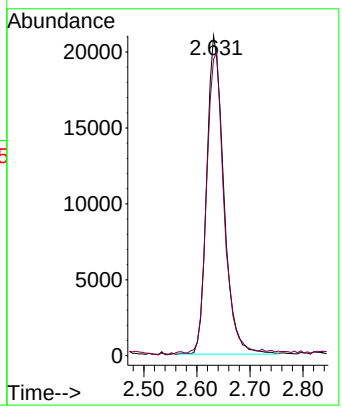




#5
Bromomethane
Concen: 20.575 ug/l
RT: 2.631 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 94 Resp: 4681

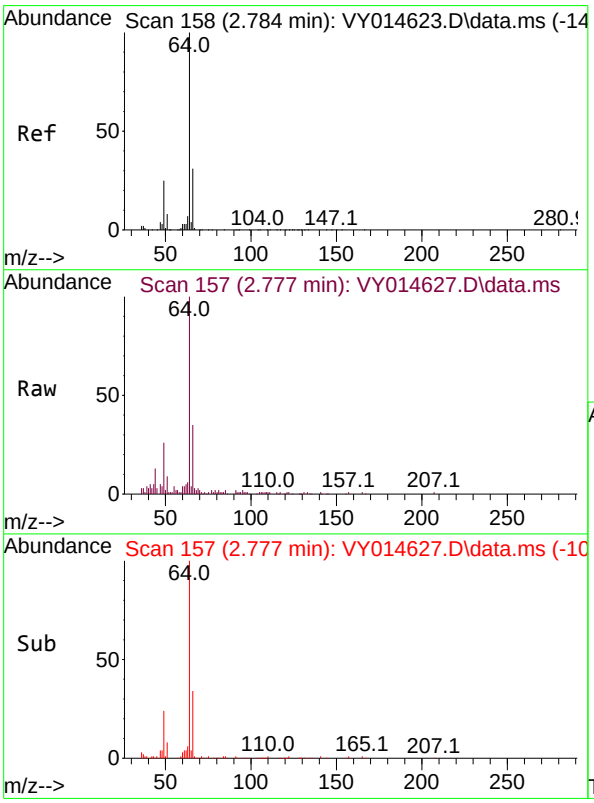
Ion	Ratio	Lower	Upper
94	100		
96	92.0	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

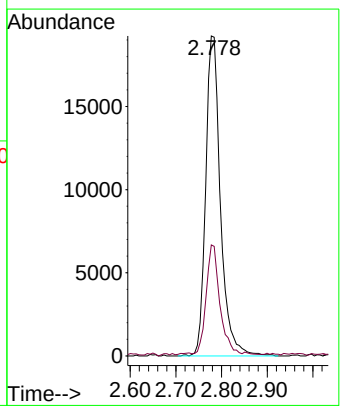
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

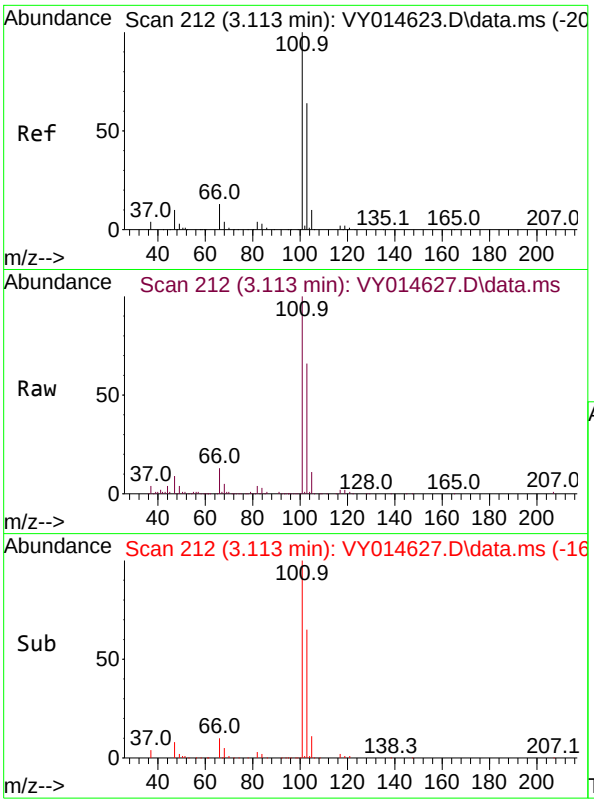


#6
Chloroethane
Concen: 20.085 ug/l
RT: 2.777 min Scan# 157
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 64 Resp: 43198

Ion	Ratio	Lower	Upper
64	100		
66	34.2	24.4	36.6

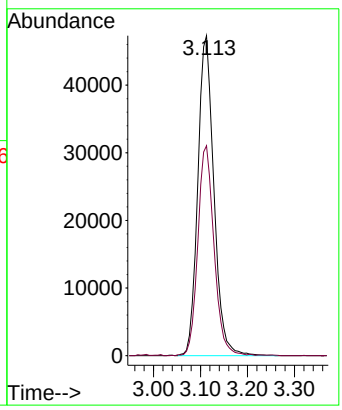




#7
Trichlorofluoromethane
Concen: 19.470 ug/l
RT: 3.113 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:101 Resp: 11259

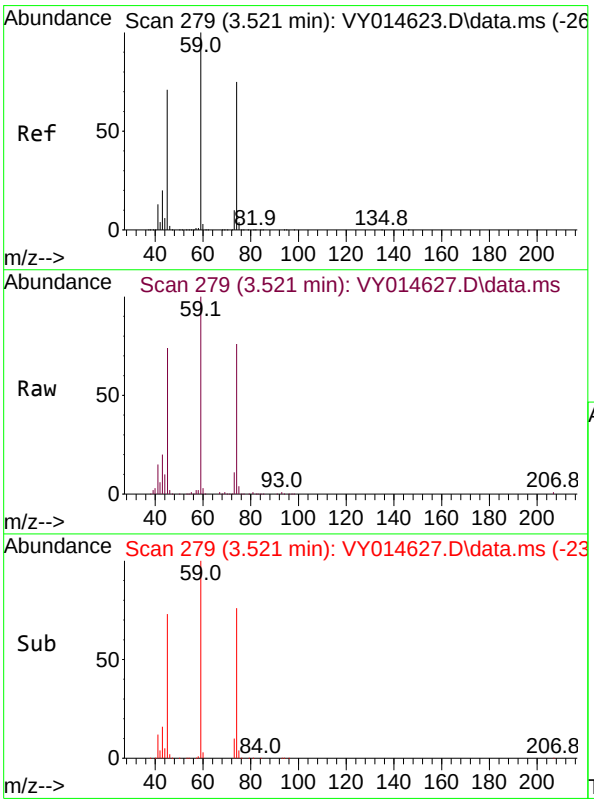
Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

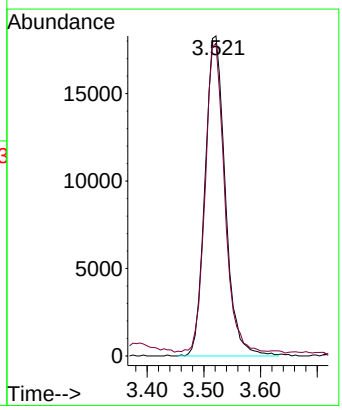
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

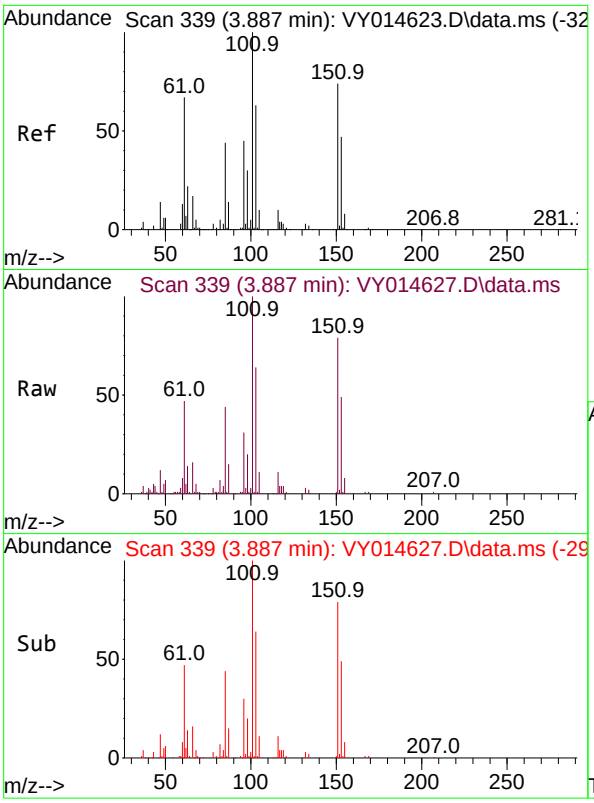


#8
Diethyl Ether
Concen: 21.074 ug/l
RT: 3.521 min Scan# 279
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 74 Resp: 45343

Ion	Ratio	Lower	Upper
74	100		
45	92.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.413 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

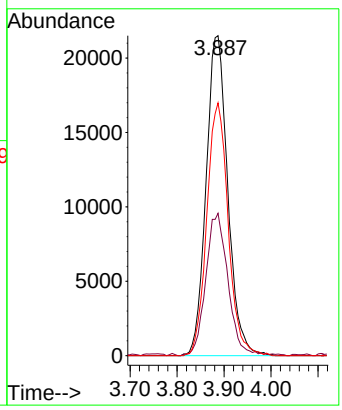
Tgt Ion:101 Resp: 6881

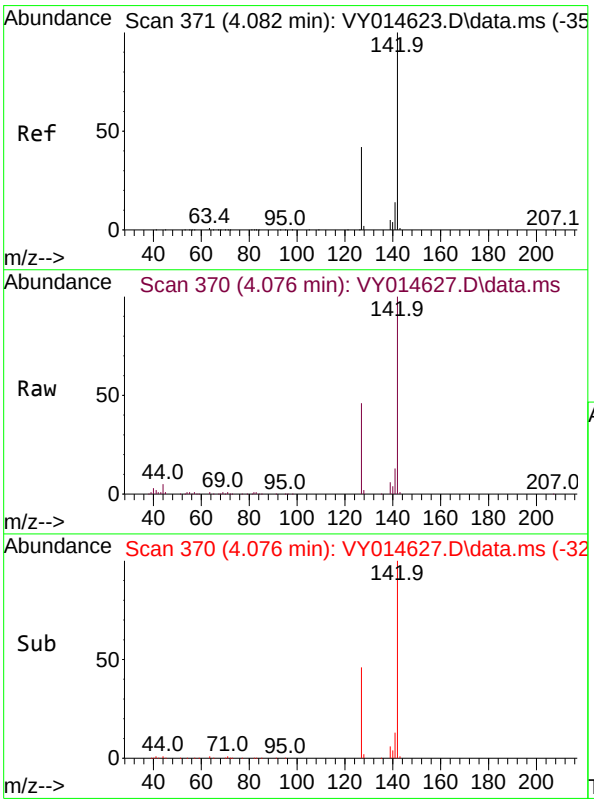
Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.6	55.0
151	78.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

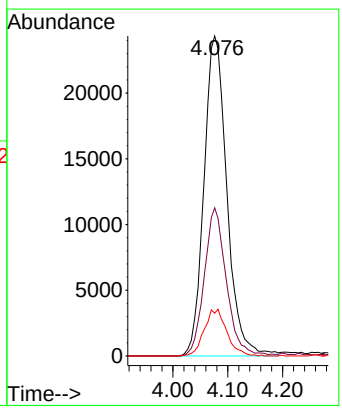


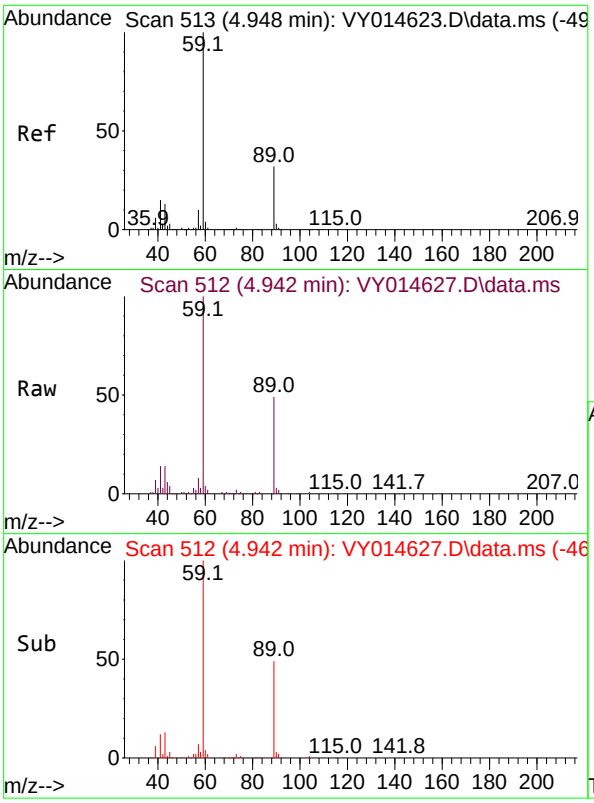


#10
Methyl Iodide
Concen: 20.287 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:142 Resp: 70675

Ion	Ratio	Lower	Upper
142	100		
127	44.6	37.6	56.4
141	14.4	11.8	17.8





#11
Tert butyl alcohol
Concen: 126.848 ug/l
RT: 4.942 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

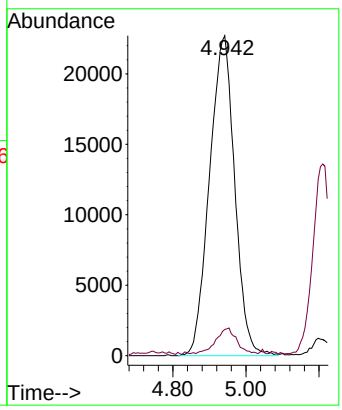
Tgt Ion: 59 Resp: 10872

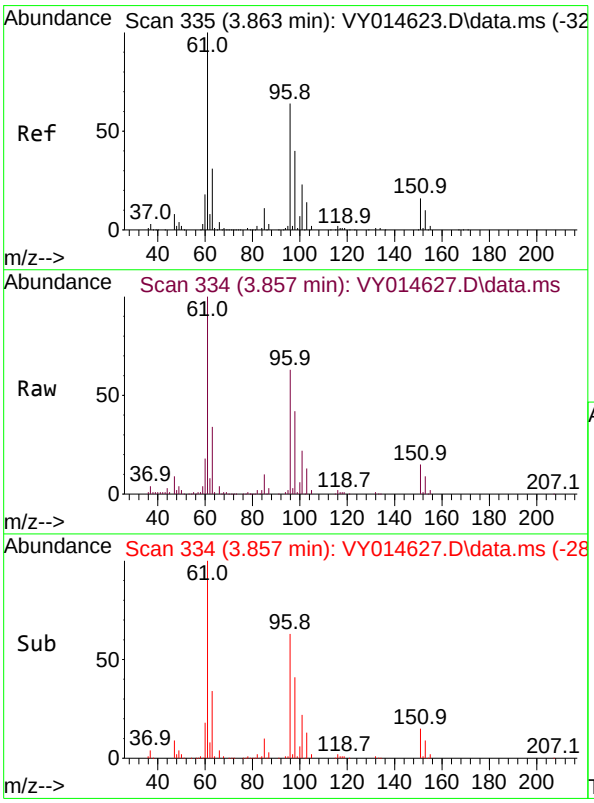
Ion	Ratio	Lower	Upper
59	100		
57	6.4	3.0	4.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

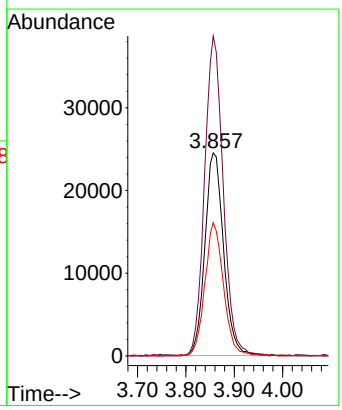


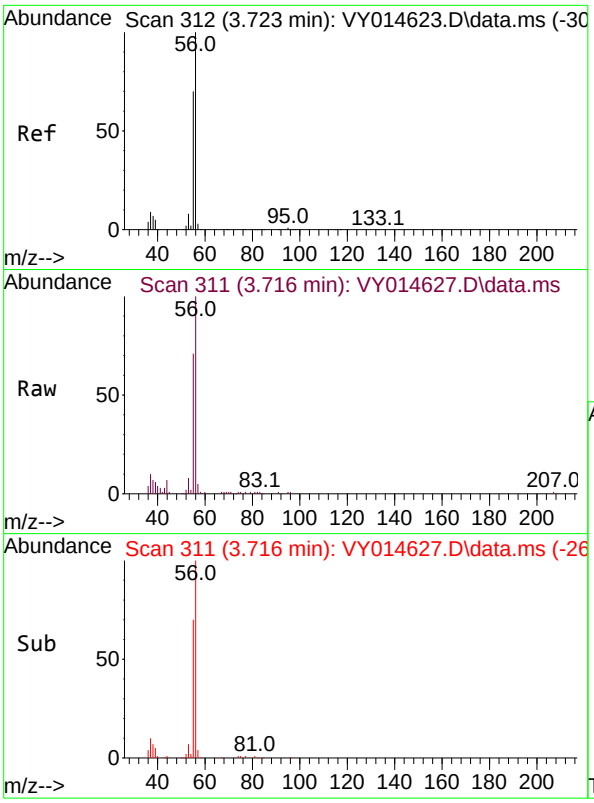


#12
1,1-Dichloroethene
Concen: 19.894 ug/l
RT: 3.857 min Scan# 334
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 96 Resp: 65904

Ion	Ratio	Lower	Upper
96	100		
61	158.0	136.4	204.6
98	65.5	49.4	74.2

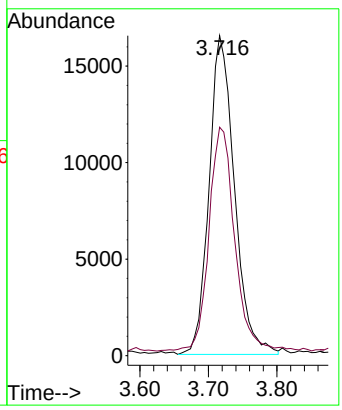




#13
Acrolein
Concen: 106.132 ug/l
RT: 3.716 min Scan# 3
Delta R.T. -0.007 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 56 Resp: 4252

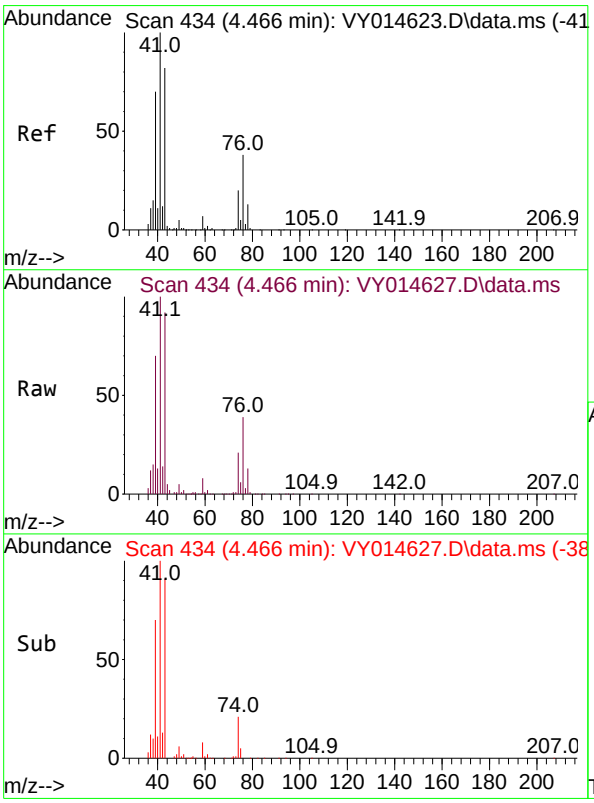
Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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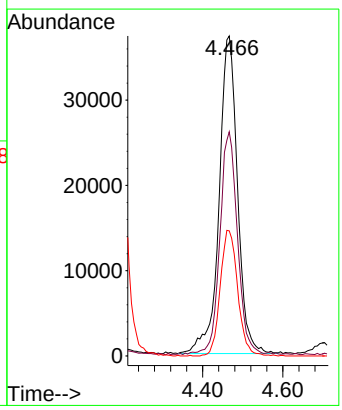
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

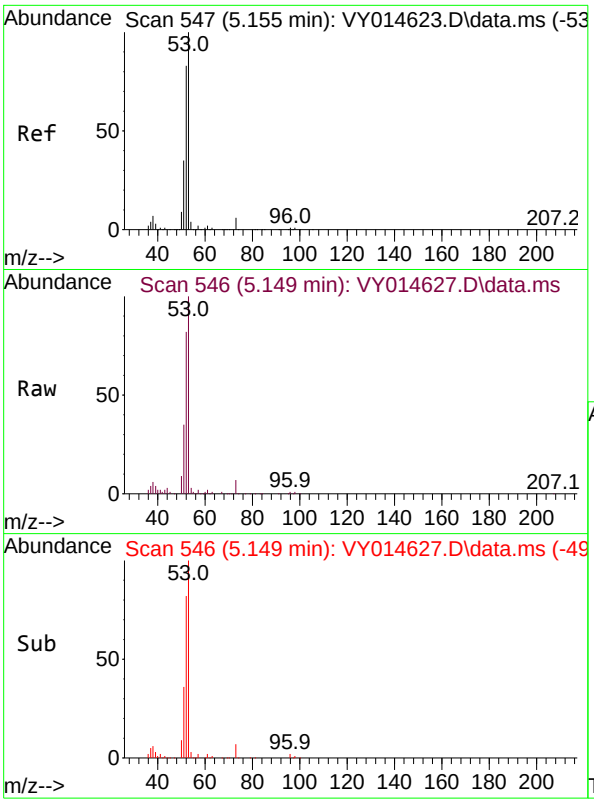


#14
Allyl chloride
Concen: 20.224 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 41 Resp: 118961

Ion	Ratio	Lower	Upper
41	100		
39	67.0	58.0	87.0
76	37.5	27.4	41.2

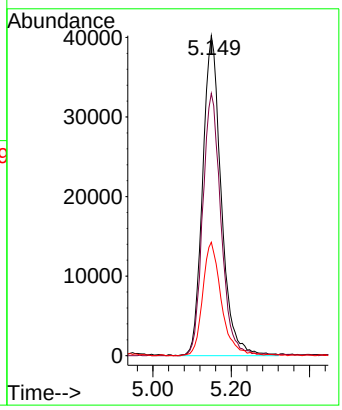




#15
Acrylonitrile
Concen: 111.680 ug/l
RT: 5.149 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 53 Resp: 13250

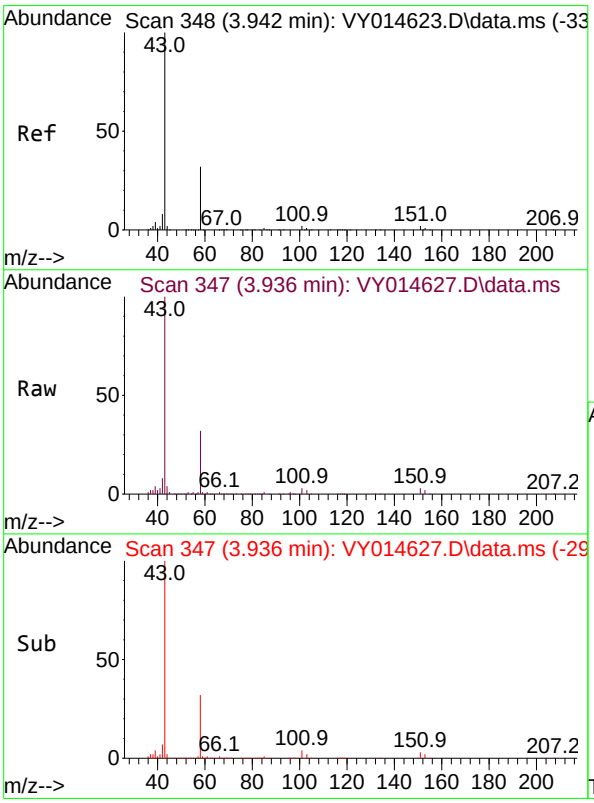
Ion	Ratio	Lower	Upper
53	100		
52	80.5	66.9	100.3
51	35.7	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

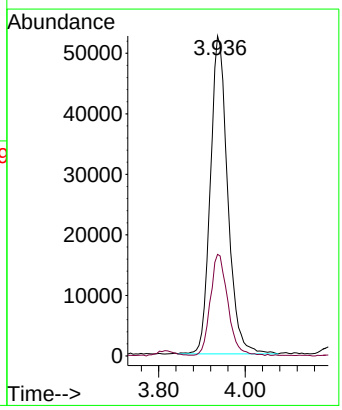
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

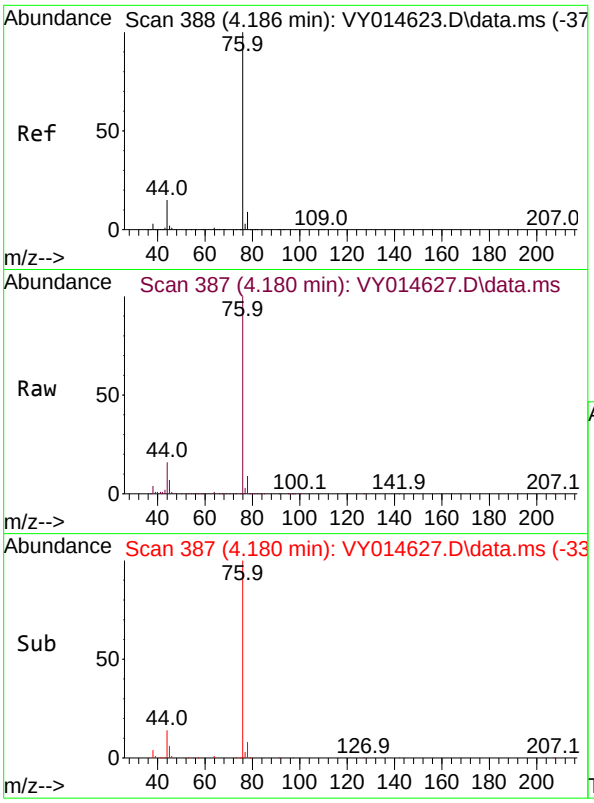


#16
Acetone
Concen: 120.304 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 43 Resp: 146145

Ion	Ratio	Lower	Upper
43	100		
58	31.8	22.7	34.1

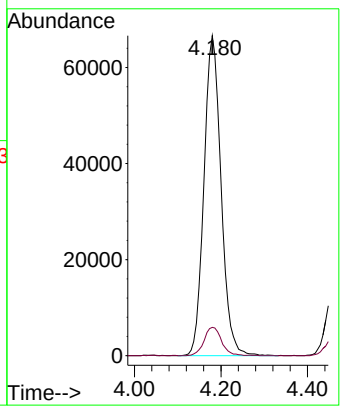




#17
Carbon Disulfide
Concen: 19.283 ug/l
RT: 4.180 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 76 Resp: 18288

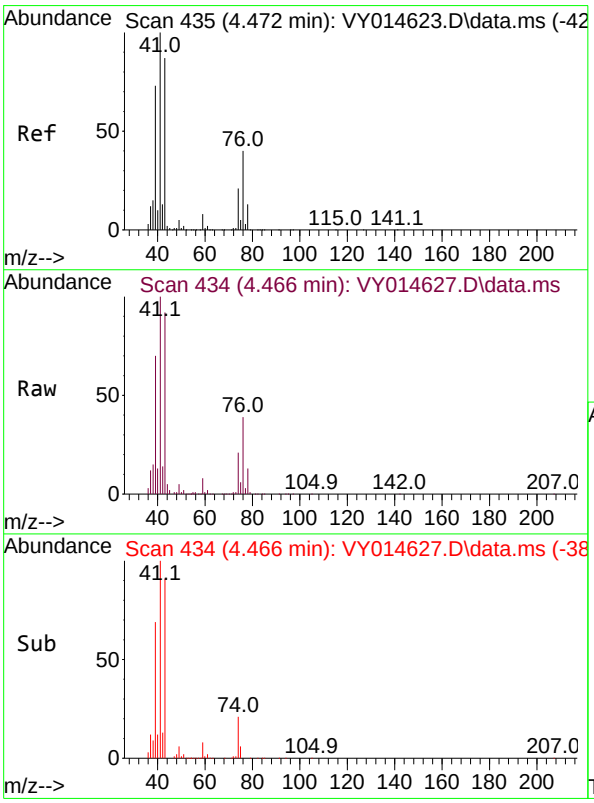
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

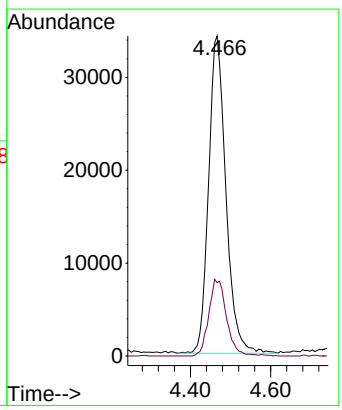
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

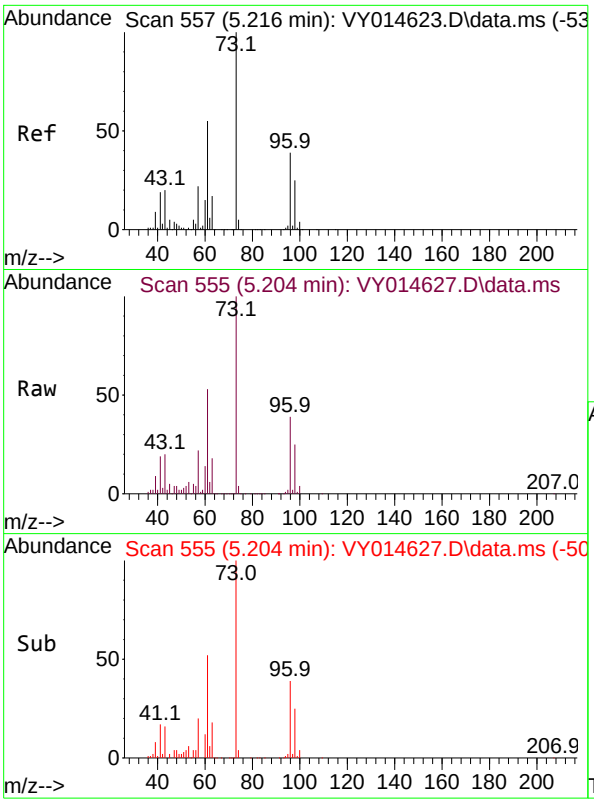


#18
Methyl Acetate
Concen: 21.929 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 43 Resp: 102231

Ion	Ratio	Lower	Upper
43	100		
74	24.7	17.4	26.0

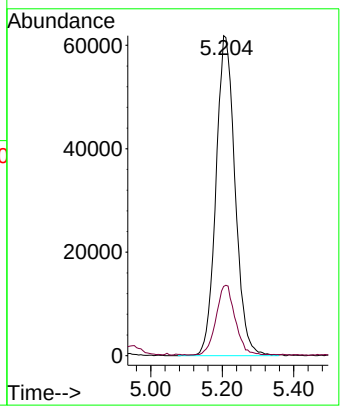




#19
Methyl tert-butyl Ether
Concen: 21.286 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 73 Resp: 22906

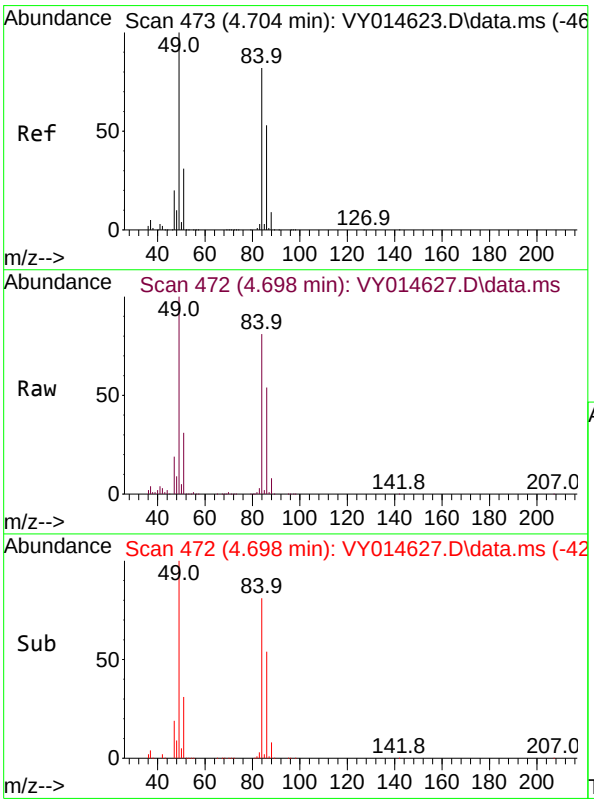
Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

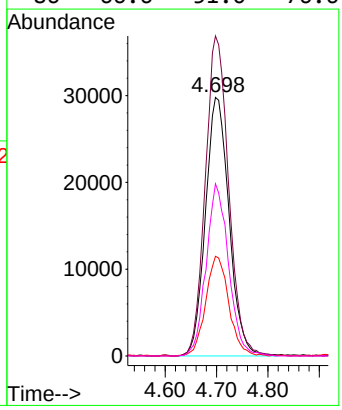
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

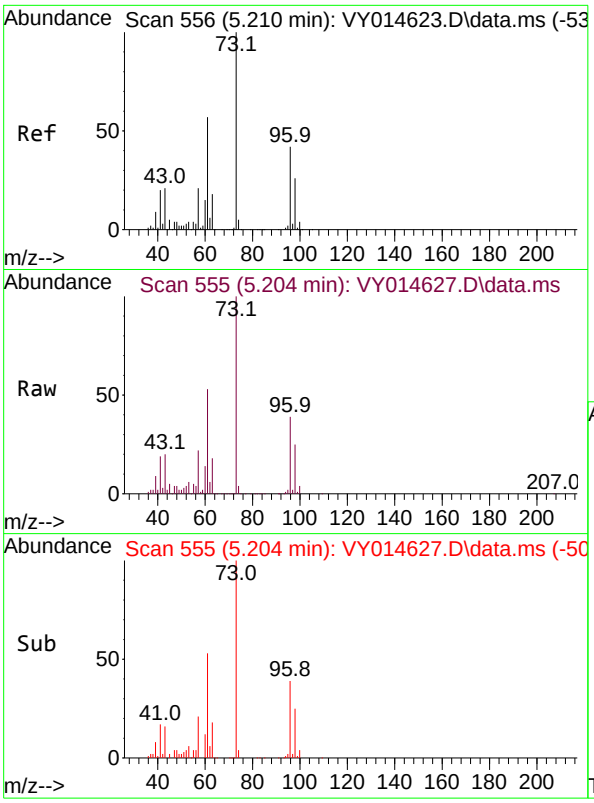


#20
Methylene Chloride
Concen: 21.791 ug/l
RT: 4.698 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 84 Resp: 95399

Ion	Ratio	Lower	Upper
84	100		
49	123.7	106.9	160.3
51	38.3	33.2	49.8
86	66.6	51.0	76.6





#21
trans-1,2-Dichloroethene
Concen: 20.032 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

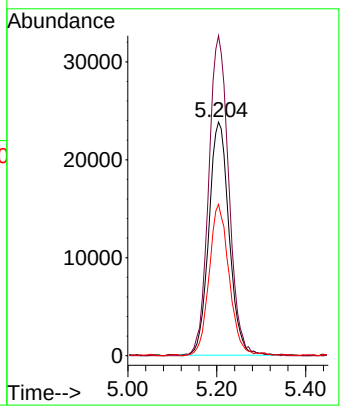
Tgt Ion: 96 Resp: 7531

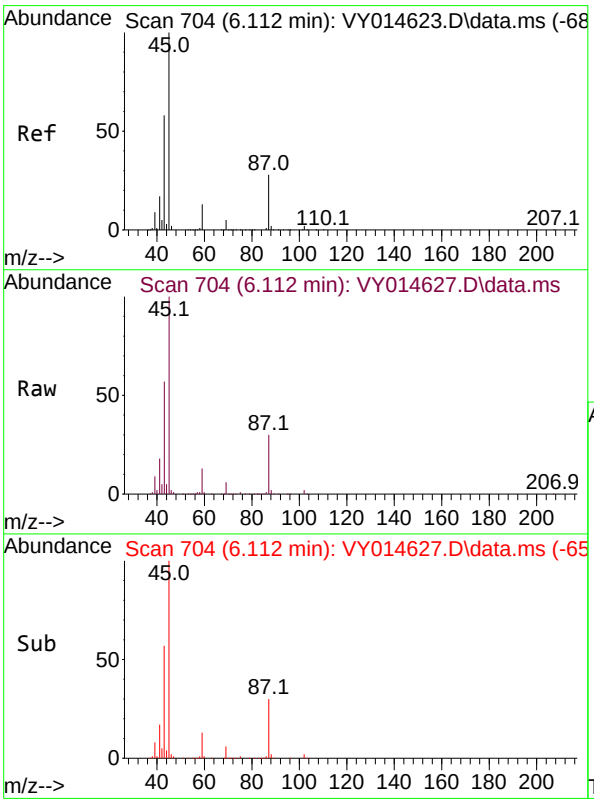
Ion	Ratio	Lower	Upper
96	100		
61	137.3	110.2	165.4
98	64.6	51.8	77.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

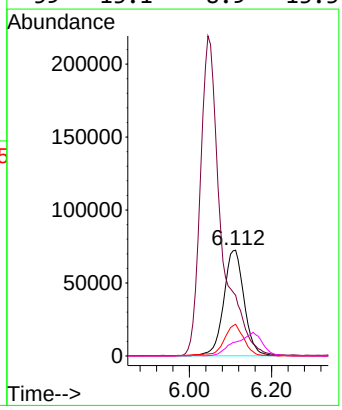


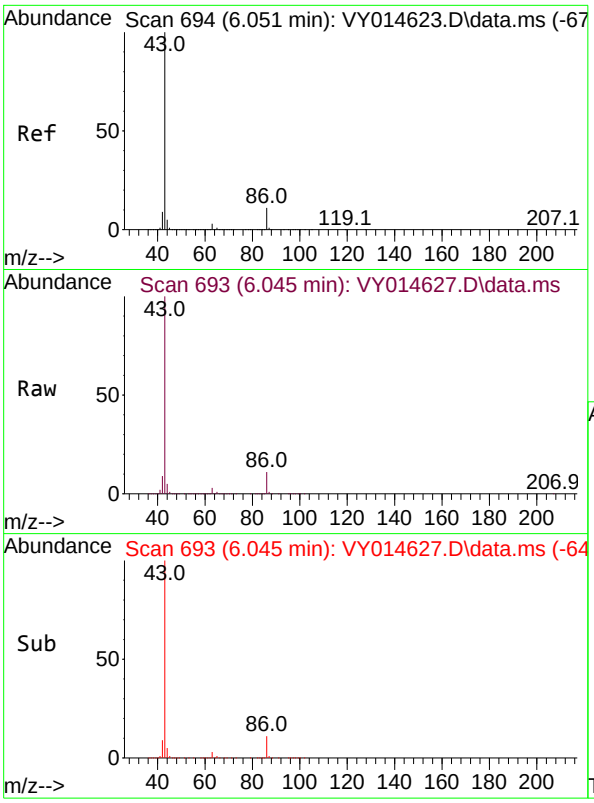


#22
Diisopropyl ether
Concen: 20.817 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 45 Resp: 248945

Ion	Ratio	Lower	Upper
45	100		
43	56.8	52.2	78.4
87	30.0	21.0	31.6
59	13.1	8.9	13.3





#23
Vinyl Acetate
Concen: 106.775 ug/l
RT: 6.045 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

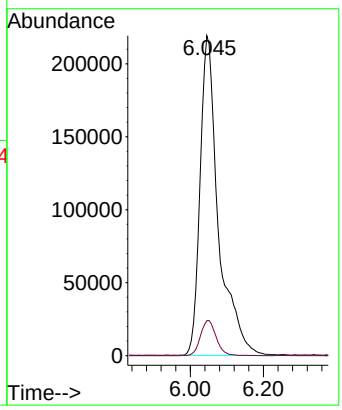
Tgt Ion: 43 Resp: 76412

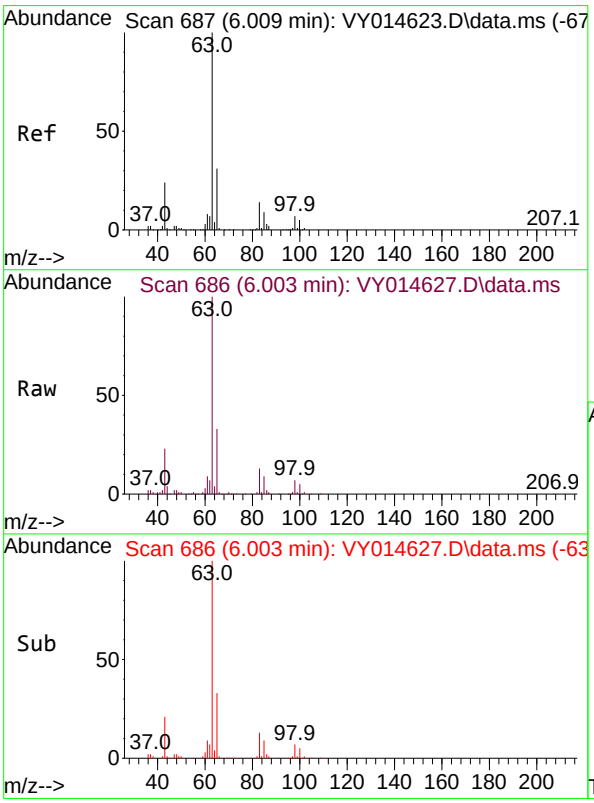
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.5	11.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

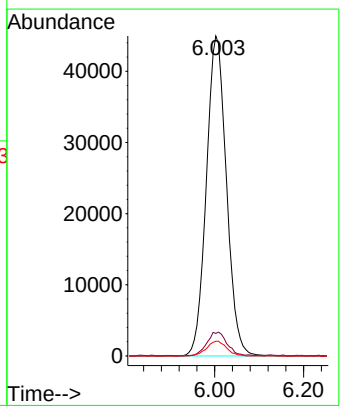


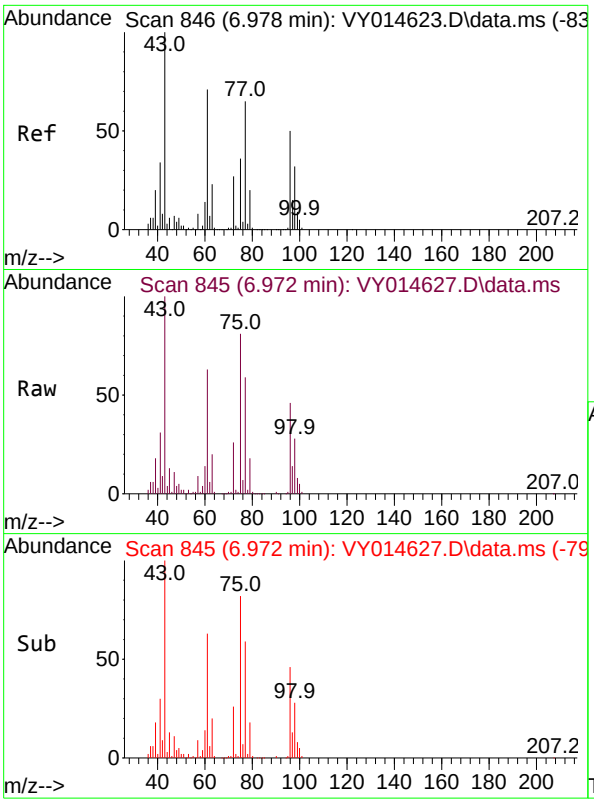


#24
1,1-Dichloroethane
Concen: 20.644 ug/l
RT: 6.003 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 63 Resp: 141257

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.1	9.4
100	4.6	1.8	5.5





#25
2-Butanone
Concen: 116.469 ug/l
RT: 6.972 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

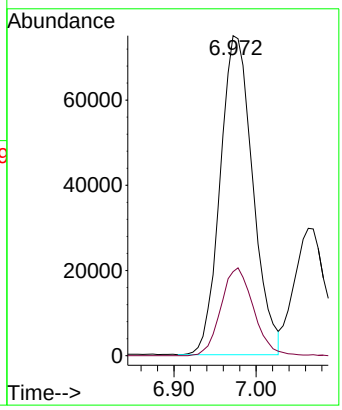
Tgt Ion: 43 Resp: 20699

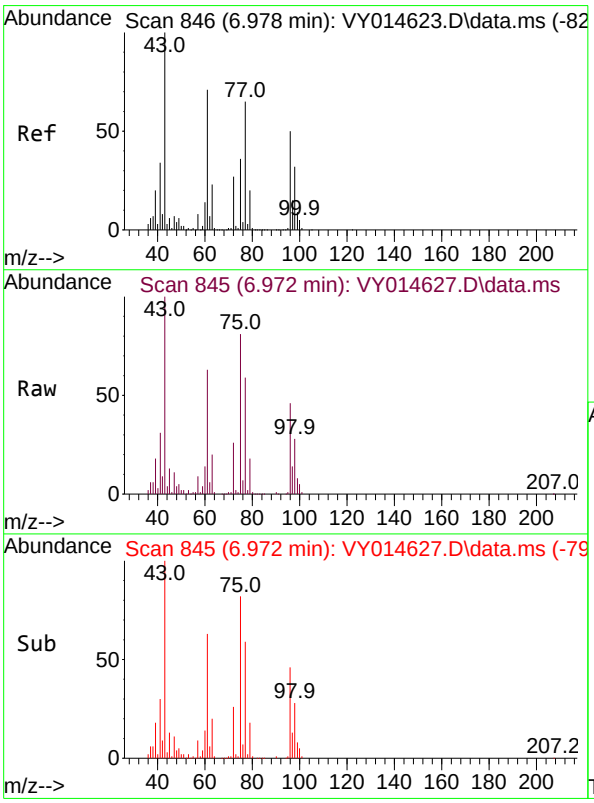
Ion	Ratio	Lower	Upper
43	100		
72	26.3	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

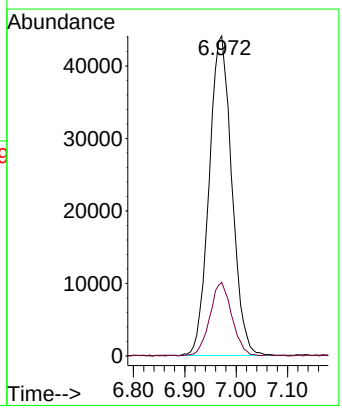


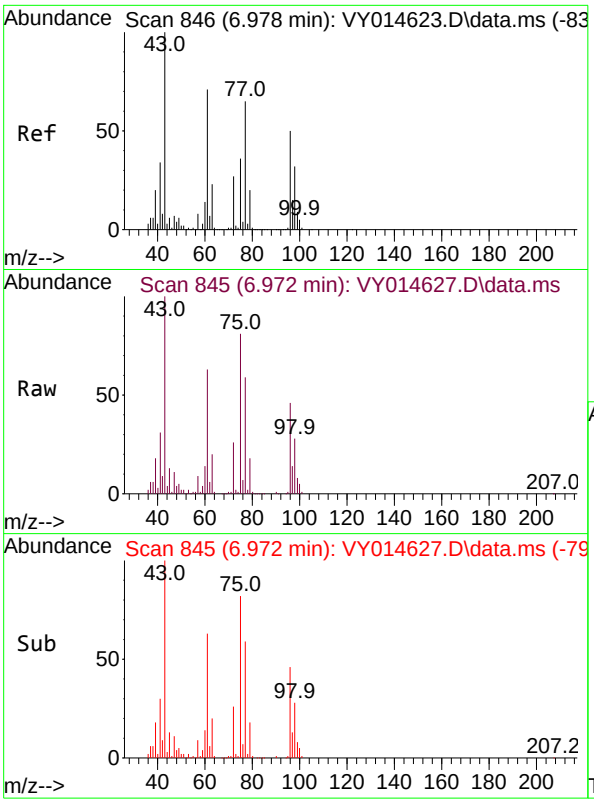


#26
2,2-Dichloropropane
Concen: 20.730 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 77 Resp: 135191

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 20.441 ug/l
RT: 6.972 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

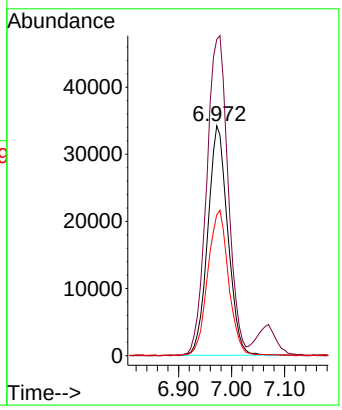
Tgt Ion: 96 Resp: 8945

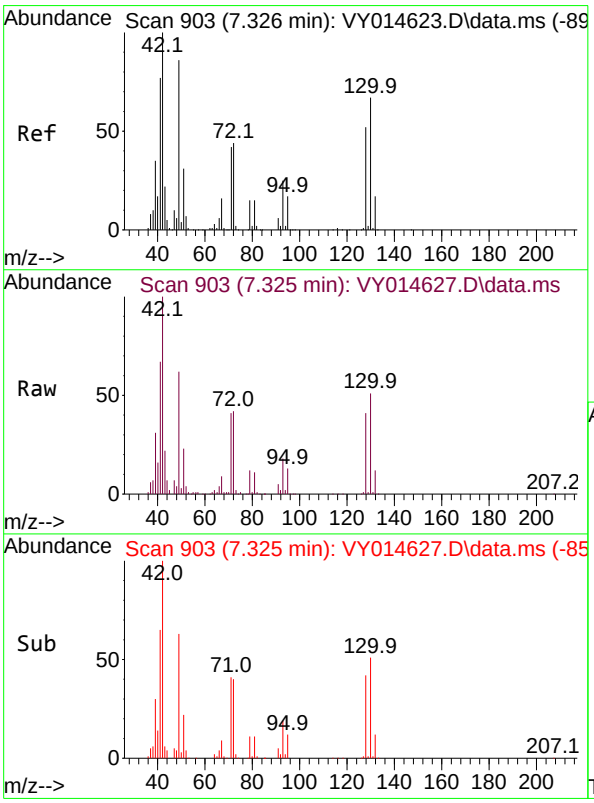
Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	301.4
98	66.5	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 07/14/2023
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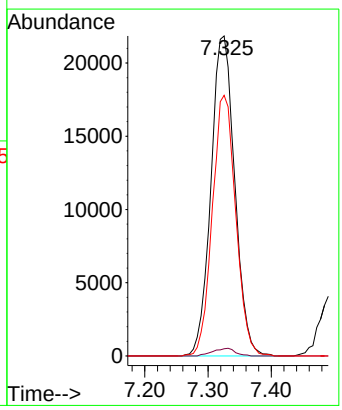


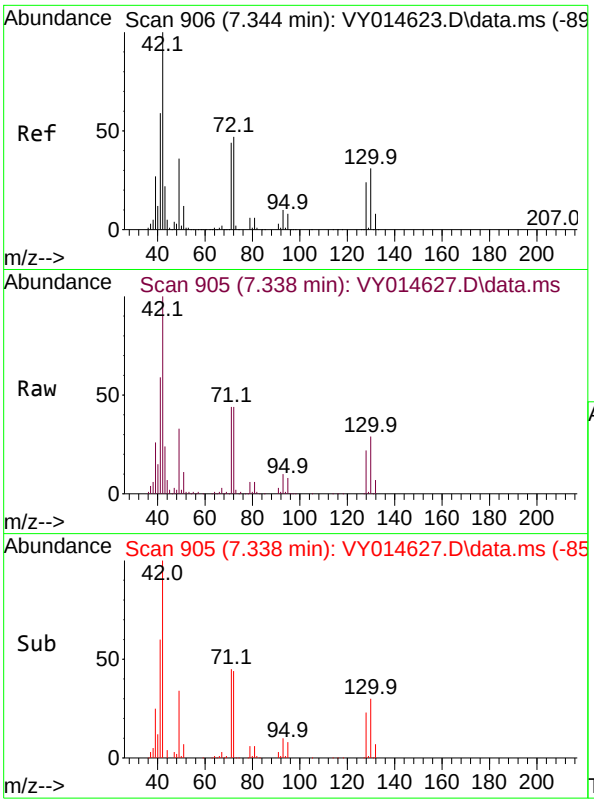


#28
Bromochloromethane
Concen: 19.348 ug/l
RT: 7.325 min Scan# 903
Delta R.T. -0.001 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 49 Resp: 57018

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.6
130	80.1	60.7	91.1

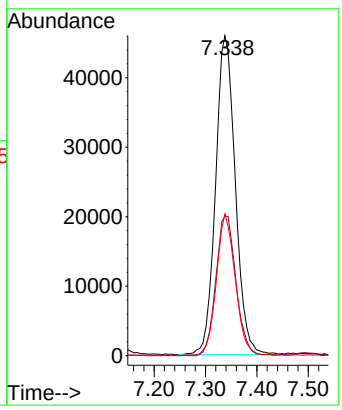




#29
Tetrahydrofuran
Concen: 111.813 ug/l
RT: 7.338 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 42 Resp: 12236

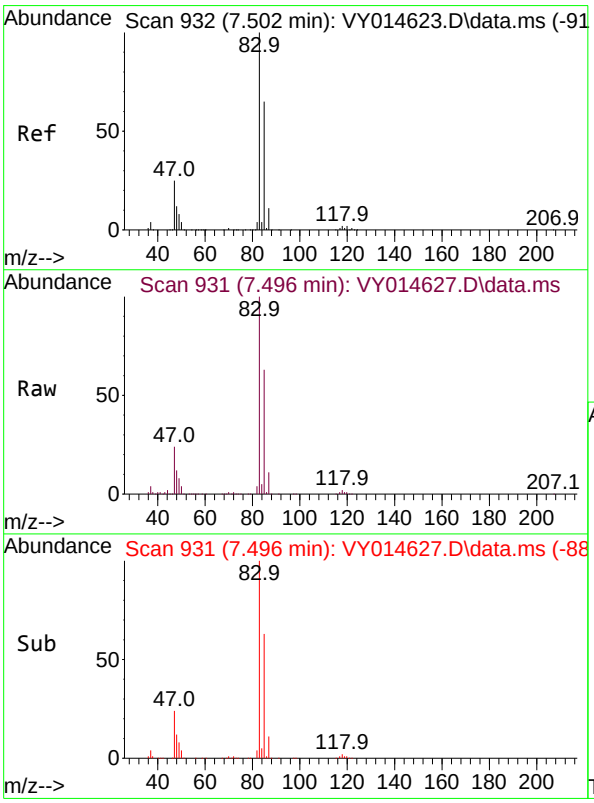
Ion	Ratio	Lower	Upper
42	100		
72	44.6	32.8	49.2
71	42.6	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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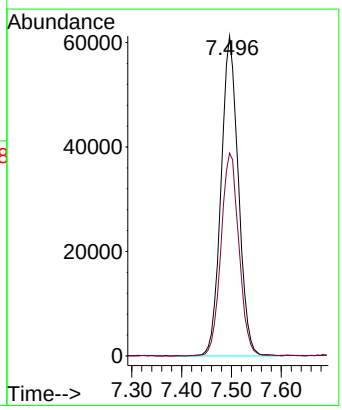
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

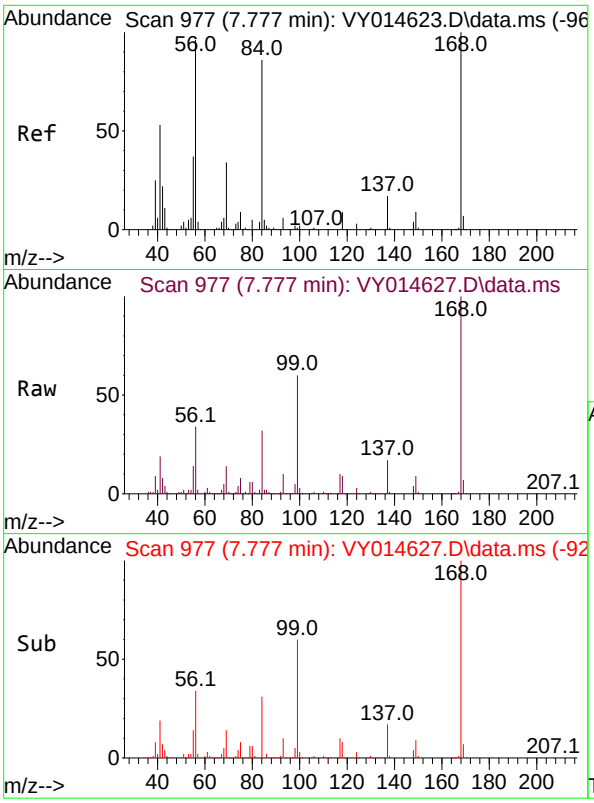


#30
Chloroform
Concen: 20.878 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 83 Resp: 147319

Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.7	74.5





#31
Cyclohexane
Concen: 19.091 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

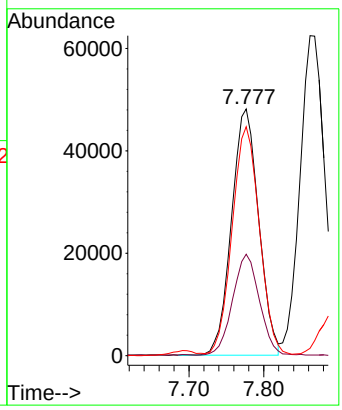
Tgt Ion: 56 Resp: 12149

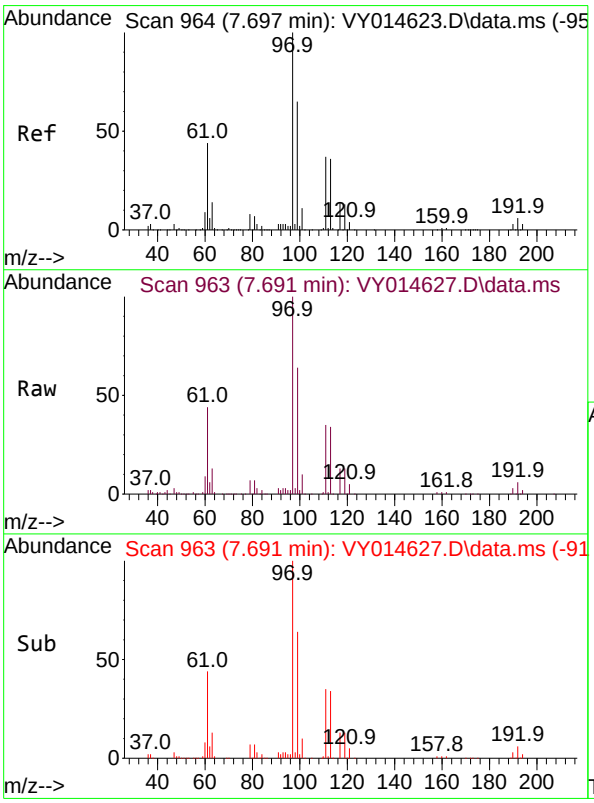
Ion	Ratio	Lower	Upper
56	100		
69	41.0	27.8	41.6
84	91.4	66.4	99.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

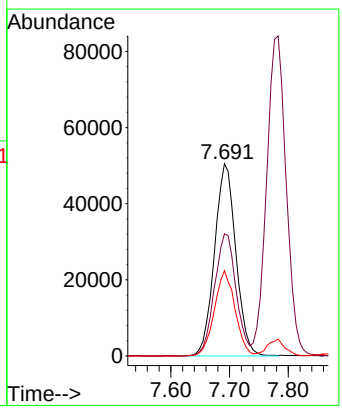


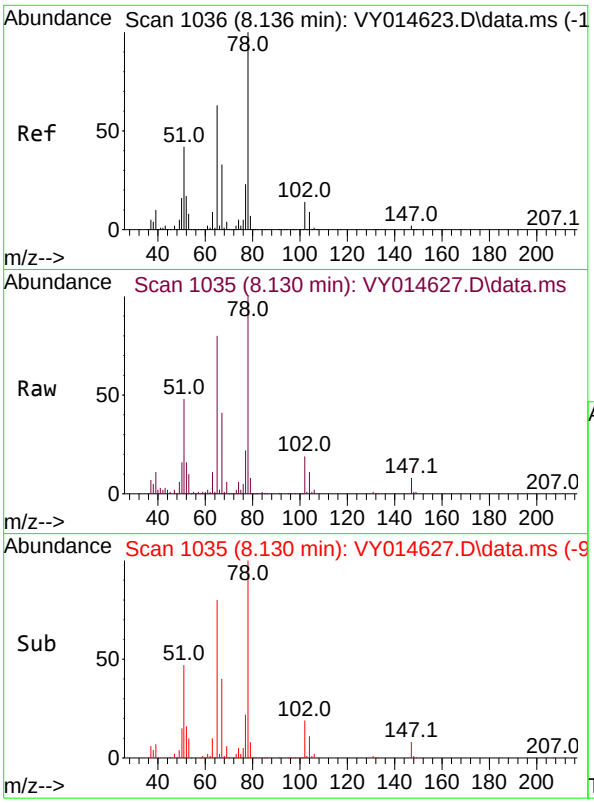


#32
1,1,1-Trichloroethane
Concen: 20.112 ug/l
RT: 7.691 min Scan# 963
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 97 Resp: 127725

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.8	76.2
61	42.8	35.1	52.7

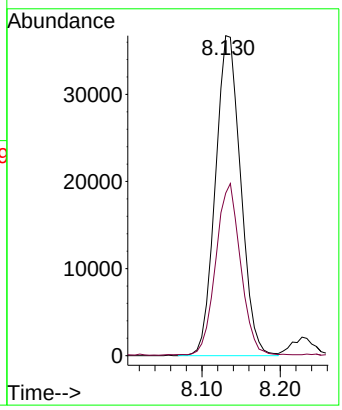




#33
1,2-Dichloroethane-d4
Concen: 21.496 ug/l
RT: 8.130 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 65 Resp: 8240(

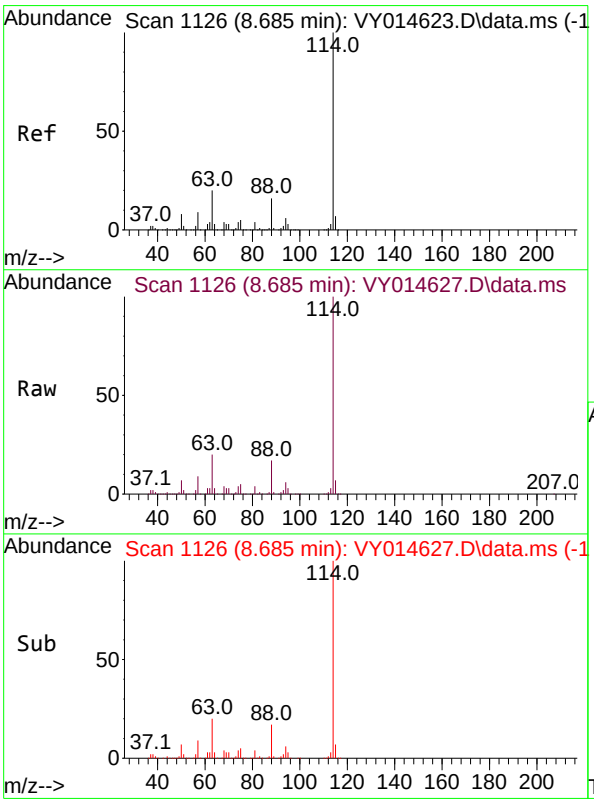
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

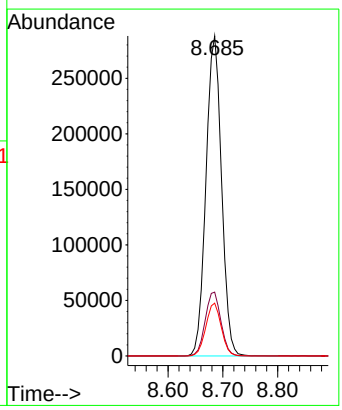
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

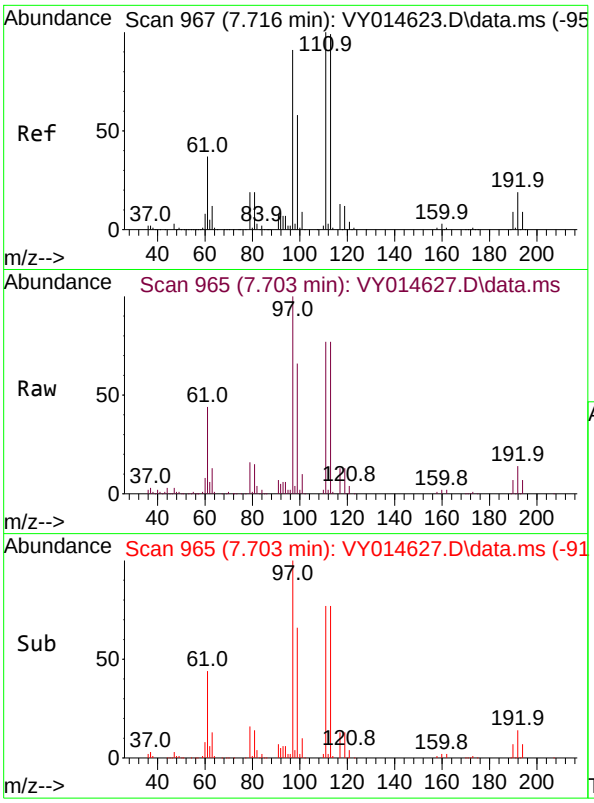


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:114 Resp: 565079

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.4
88	16.5	0.0	30.6

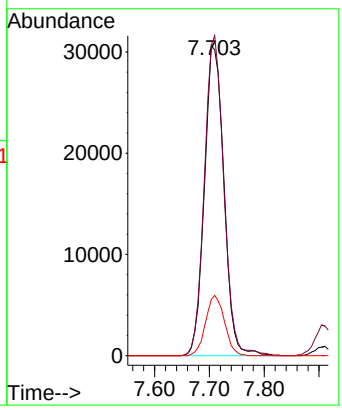




#35
Dibromofluoromethane
Concen: 21.070 ug/l
RT: 7.703 min Scan# 9
Delta R.T. -0.013 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:113 Resp: 7579

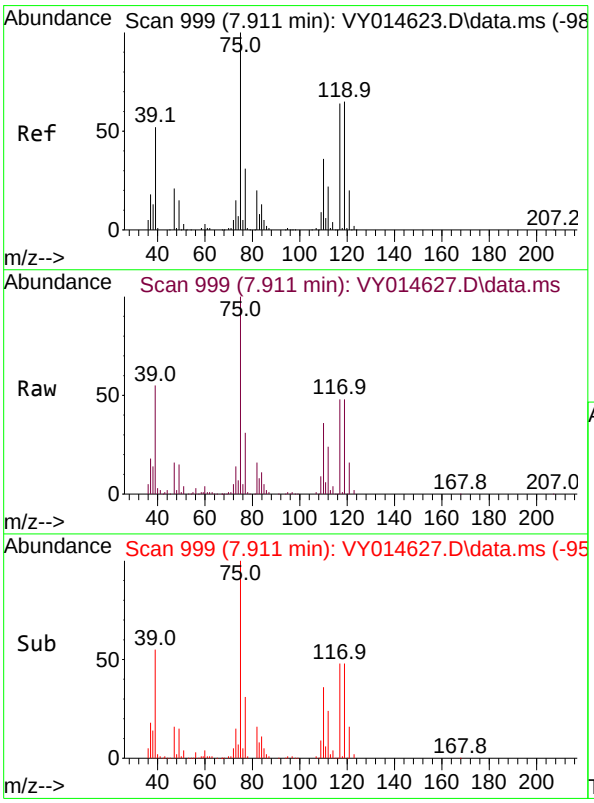
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.3	121.9
192	18.8	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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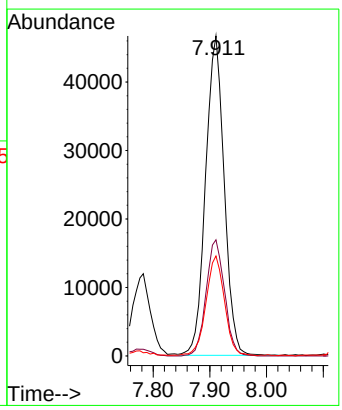
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

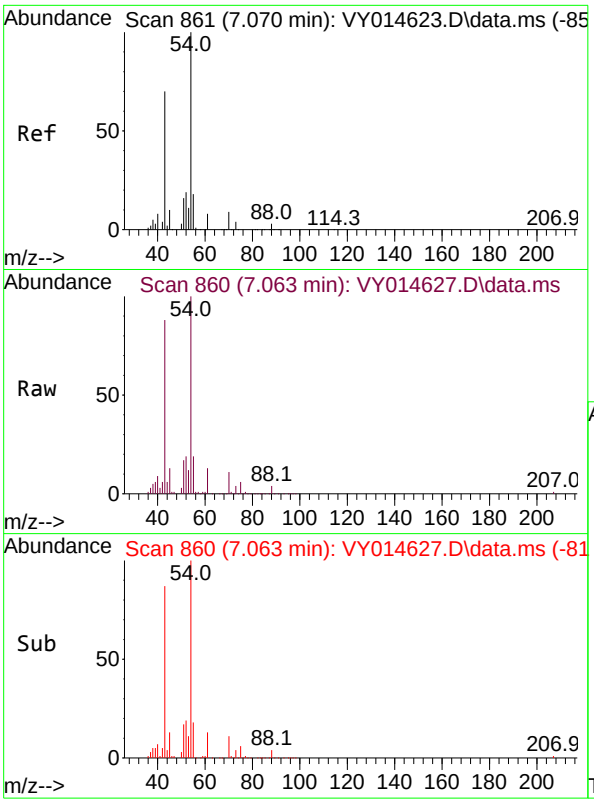


#36
1,1-Dichloropropene
Concen: 19.723 ug/l
RT: 7.911 min Scan# 999
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 106099

Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.8	53.5
77	30.9	24.4	36.6





#37
Ethyl Acetate
Concen: 21.953 ug/l
RT: 7.063 min Scan# 8
Delta R.T. -0.007 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

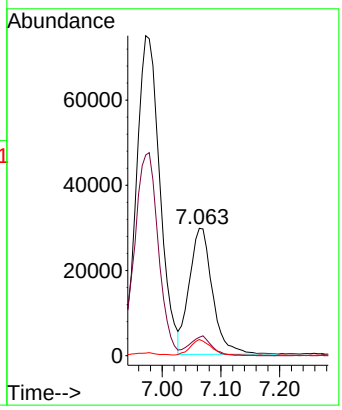
Tgt Ion: 43 Resp: 8130

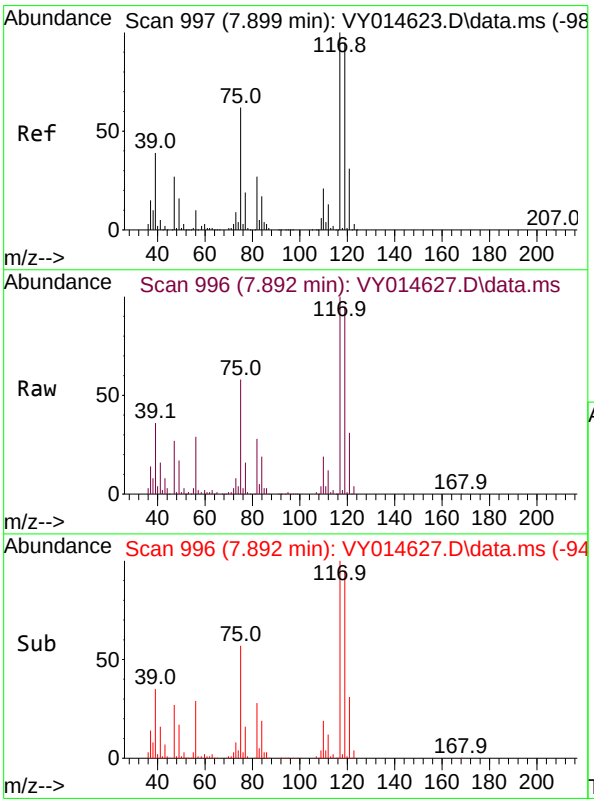
Ion	Ratio	Lower	Upper
43	100		
61	14.6	10.1	15.1
70	11.5	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

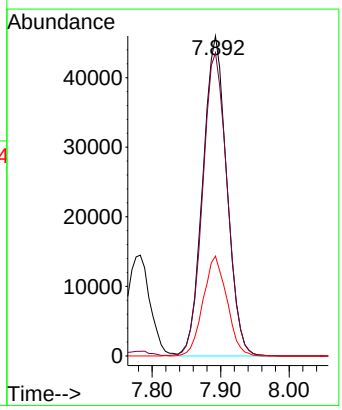


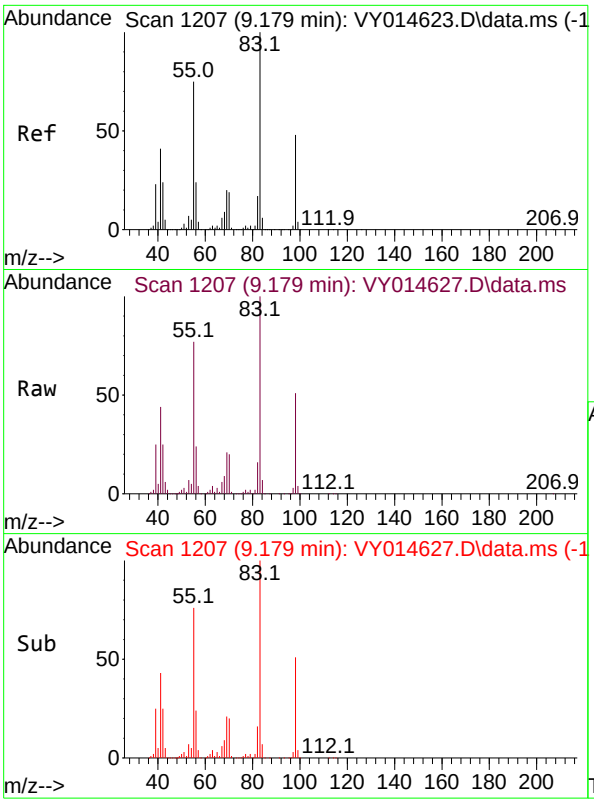


#38
Carbon Tetrachloride
Concen: 19.654 ug/l
RT: 7.892 min Scan# 996
Delta R.T. -0.007 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:117 Resp: 111763

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.4	114.6
121	31.2	25.8	38.6





#39
Methylcyclohexane
Concen: 19.245 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

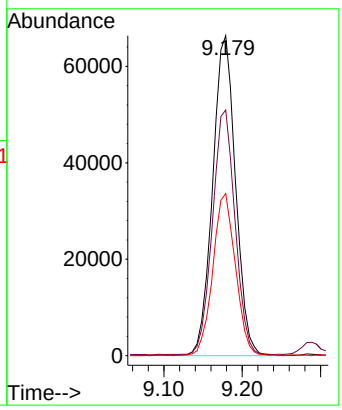
Tgt Ion: 83 Resp: 13487

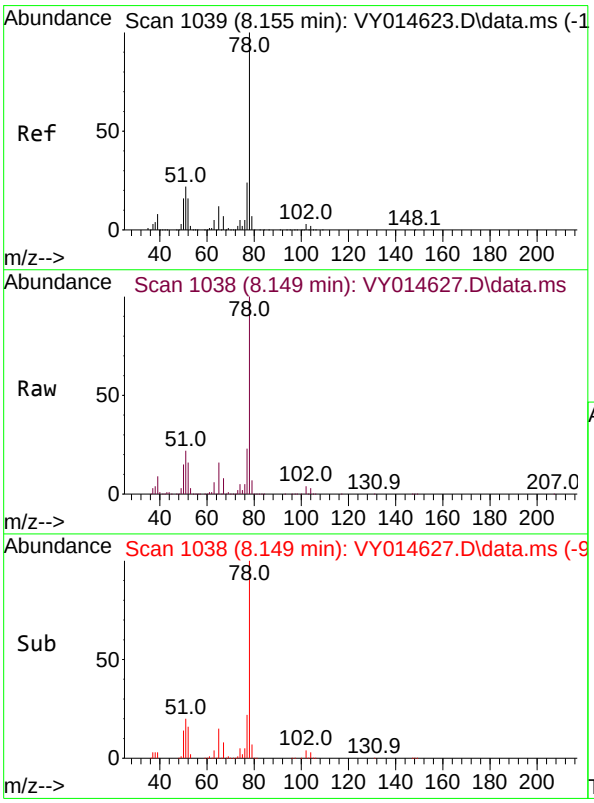
Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.0	94.4
98	50.6	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

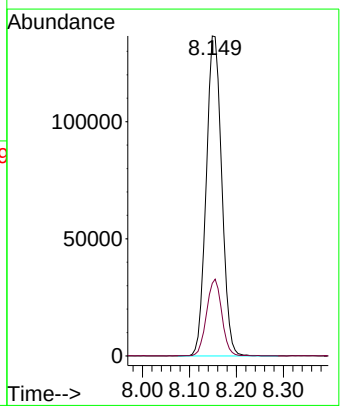


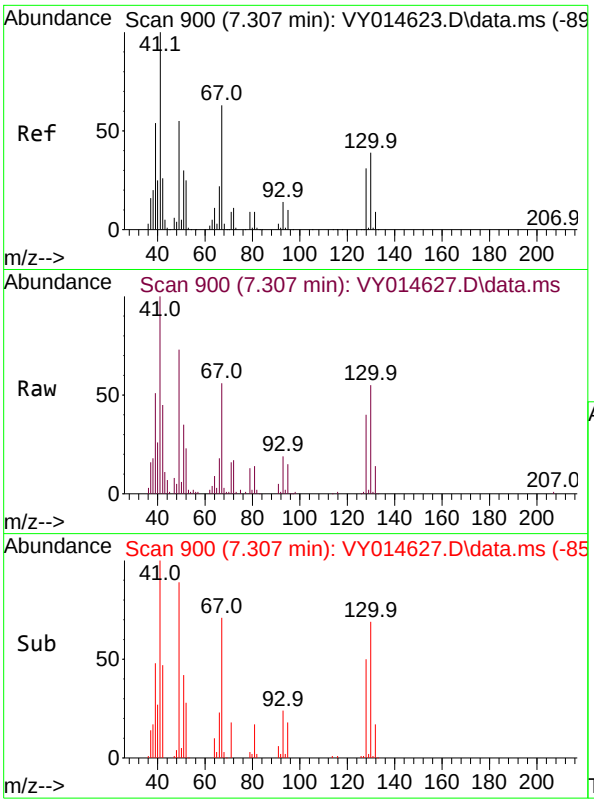


#40
Benzene
Concen: 20.431 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 78 Resp: 312574

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.6

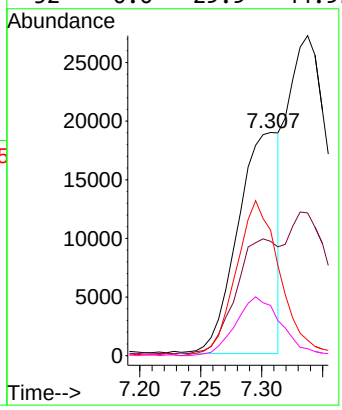




#41
Methacrylonitrile
Concen: 22.768 ug/l m
RT: 7.307 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 41 Resp: 4459

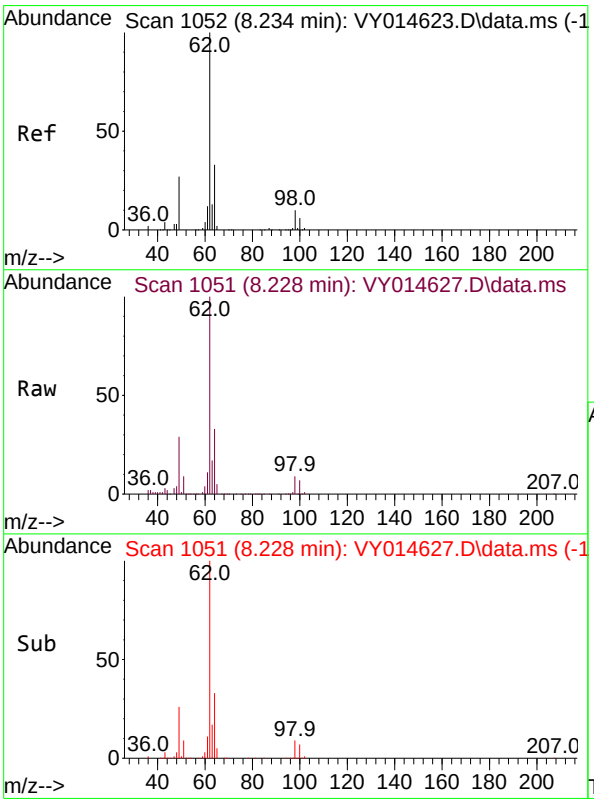
Ion	Ratio	Lower	Upper
41	100		
39	61.0	52.1	78.1
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

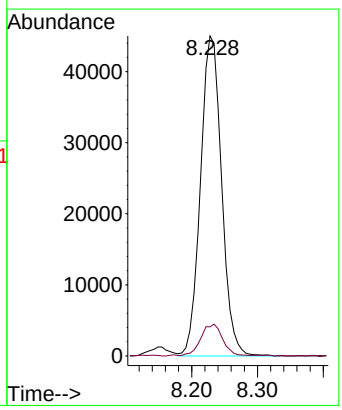
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

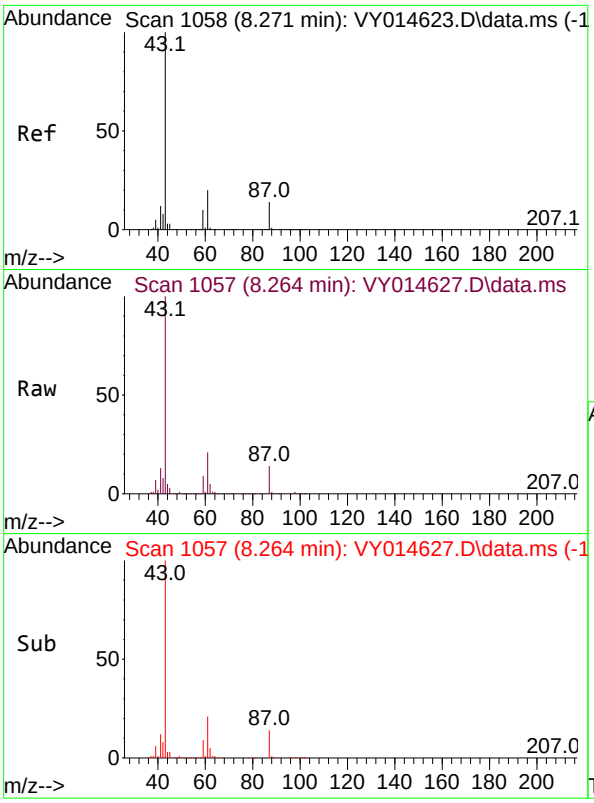


#42
1,2-Dichloroethane
Concen: 20.750 ug/l
RT: 8.228 min Scan# 1051
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 62 Resp: 100533

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	15.8

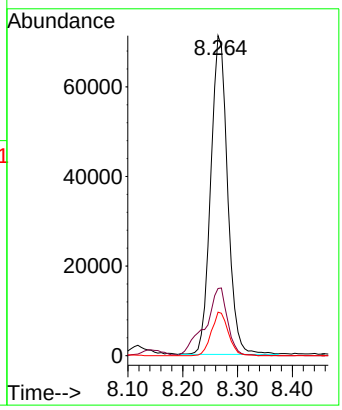




#43
Isopropyl Acetate
Concen: 21.527 ug/l
RT: 8.264 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 43 Resp: 15187

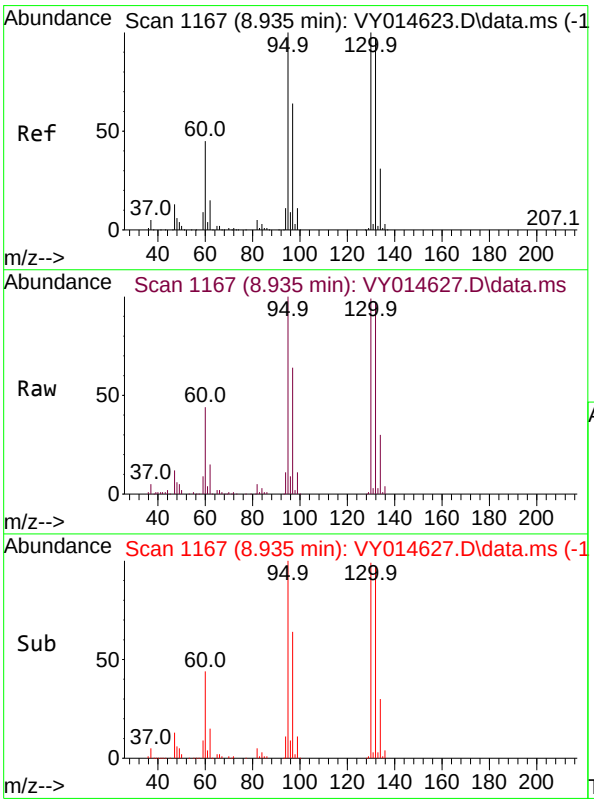
Ion	Ratio	Lower	Upper
43	100		
61	27.9	21.1	31.7
87	13.7	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

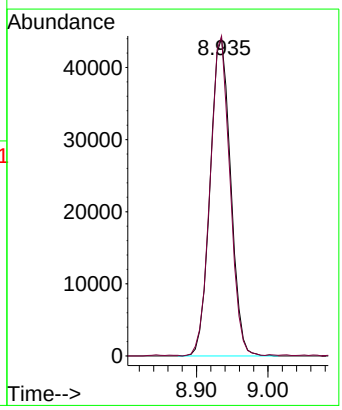
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

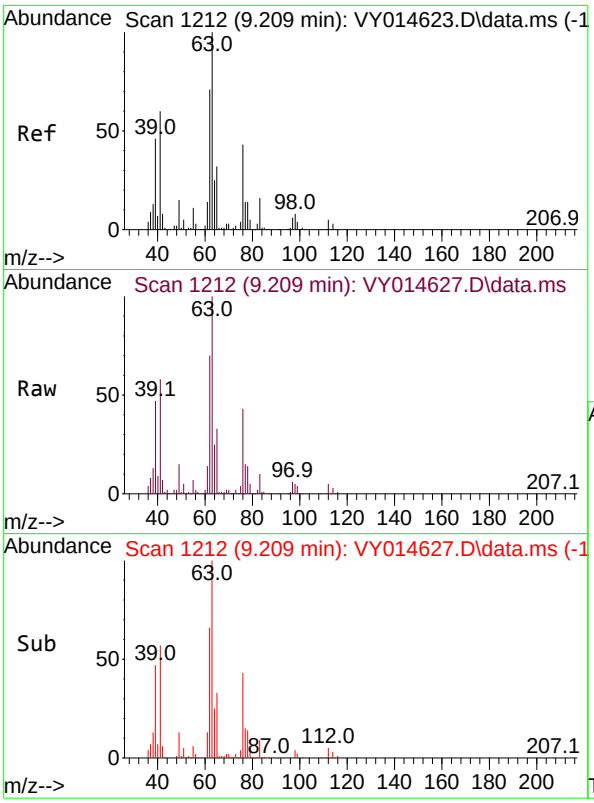


#44
Trichloroethene
Concen: 20.459 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:130 Resp: 87579

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	196.0

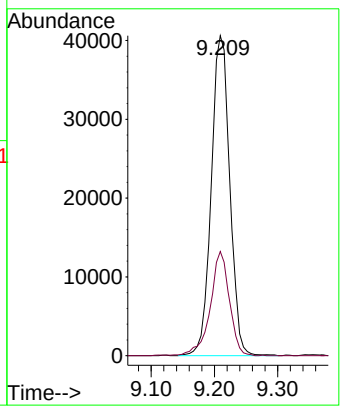




#45
1,2-Dichloropropane
Concen: 20.661 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 63 Resp: 8254

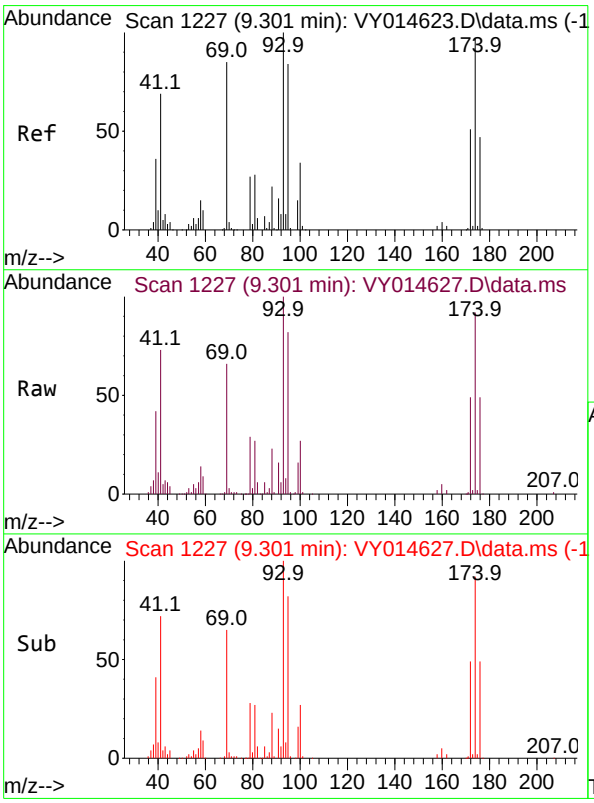
Ion	Ratio	Lower	Upper
63	100		
65	32.5	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

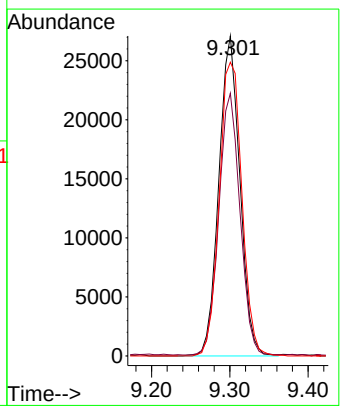
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

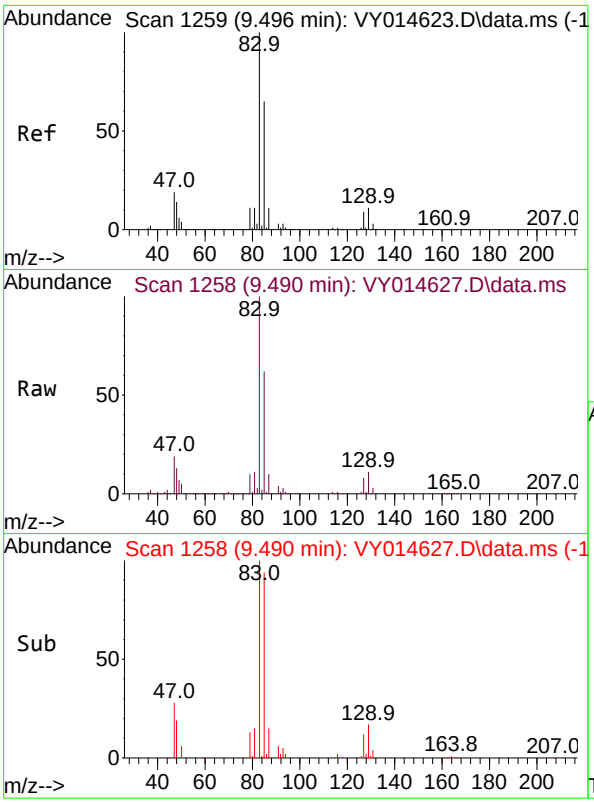


#46
Dibromomethane
Concen: 20.859 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 93 Resp: 50553

Ion	Ratio	Lower	Upper
93	100		
95	82.3	66.6	100.0
174	99.0	84.8	127.2

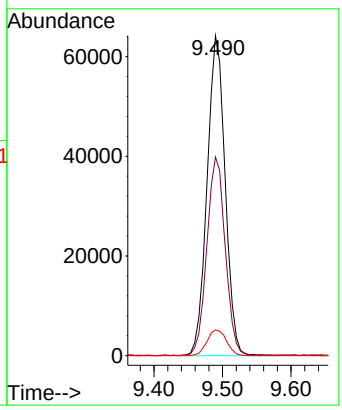




#47
Bromodichloromethane
Concen: 20.622 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 83 Resp: 11779

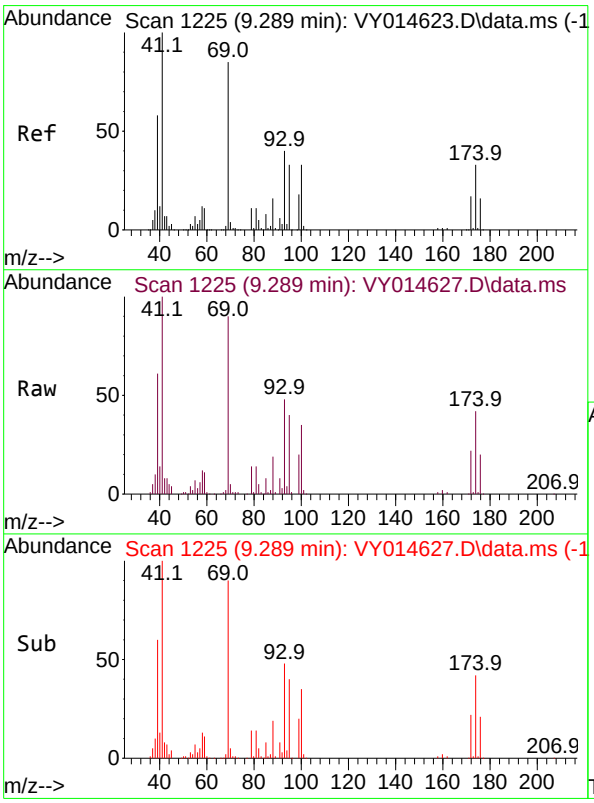
Ion	Ratio	Lower	Upper
83	100		
85	62.0	50.1	75.1
127	8.0	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

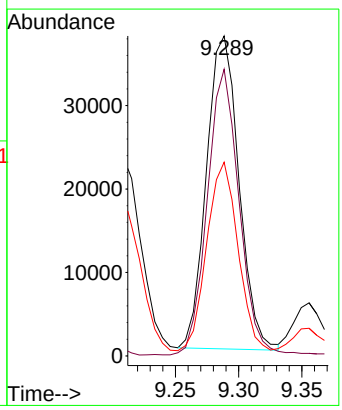
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

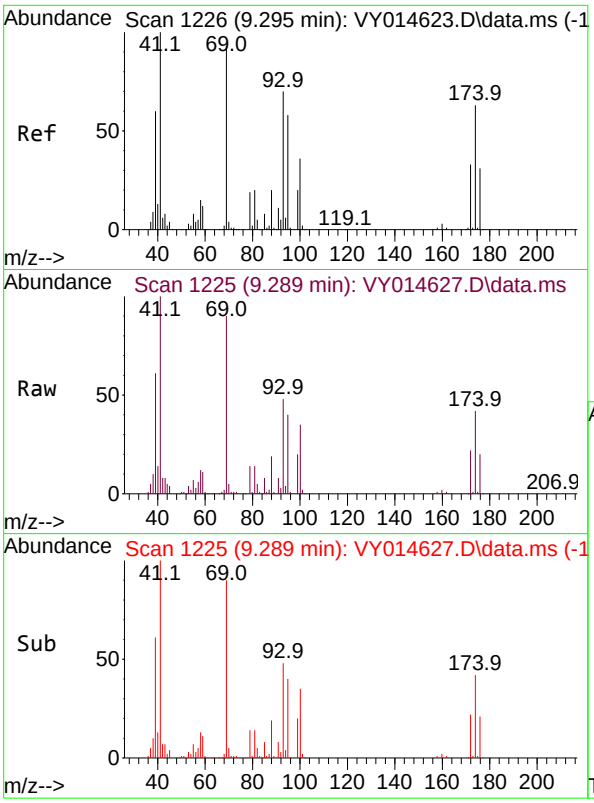


#48
Methyl methacrylate
Concen: 21.114 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 41 Resp: 67029

Ion	Ratio	Lower	Upper
41	100		
69	89.7	64.5	96.7
39	60.3	50.8	76.2

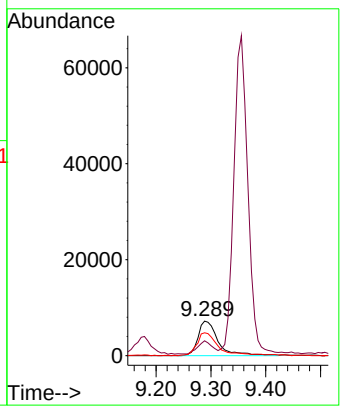




#49
1,4-Dioxane
Concen: 467.577 ug/l
RT: 9.289 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 88 Resp: 1847

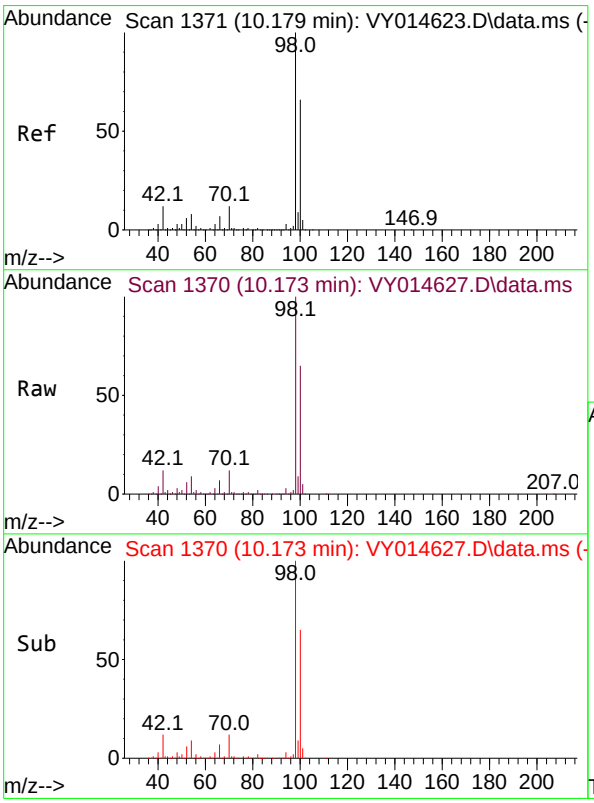
Ion	Ratio	Lower	Upper
88	100		
43	27.3	0.0	0.0#
58	71.3	30.9	46.3#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

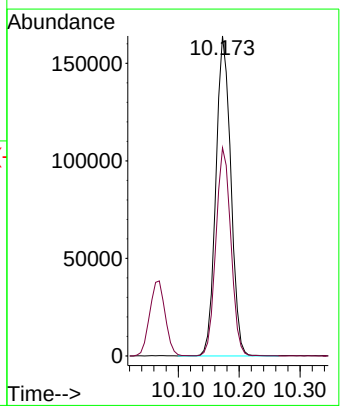
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

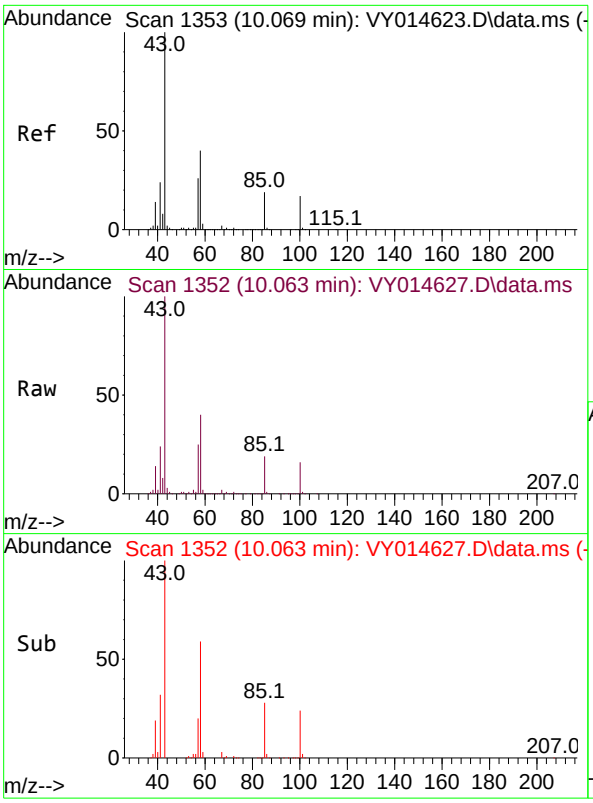


#50
Toluene-d8
Concen: 21.032 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 98 Resp: 278928

Ion	Ratio	Lower	Upper
98	100		
100	65.3	50.1	75.1

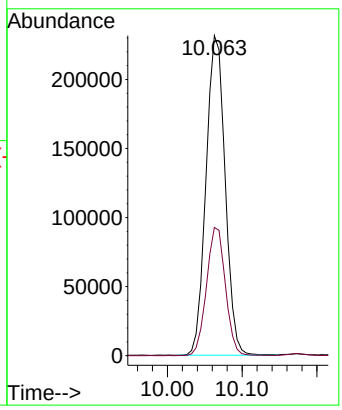




#51
4-Methyl-2-Pentanone
Concen: 111.158 ug/l
RT: 10.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 43 Resp: 41176

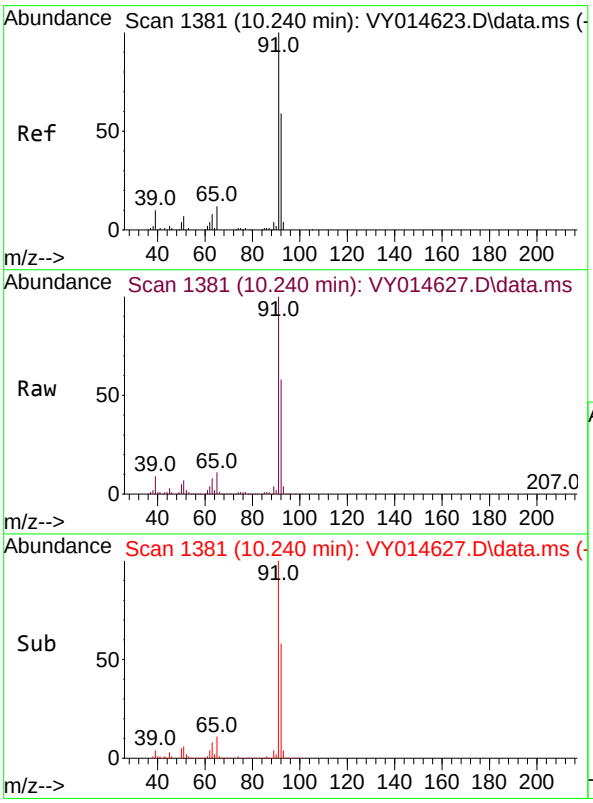
Ion	Ratio	Lower	Upper
43	100		
58	39.8	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

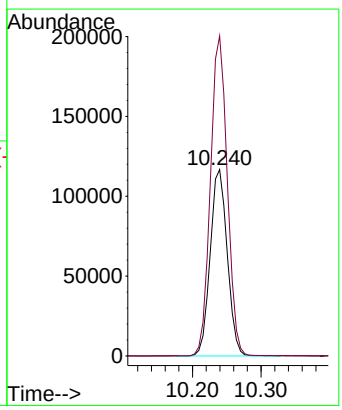
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

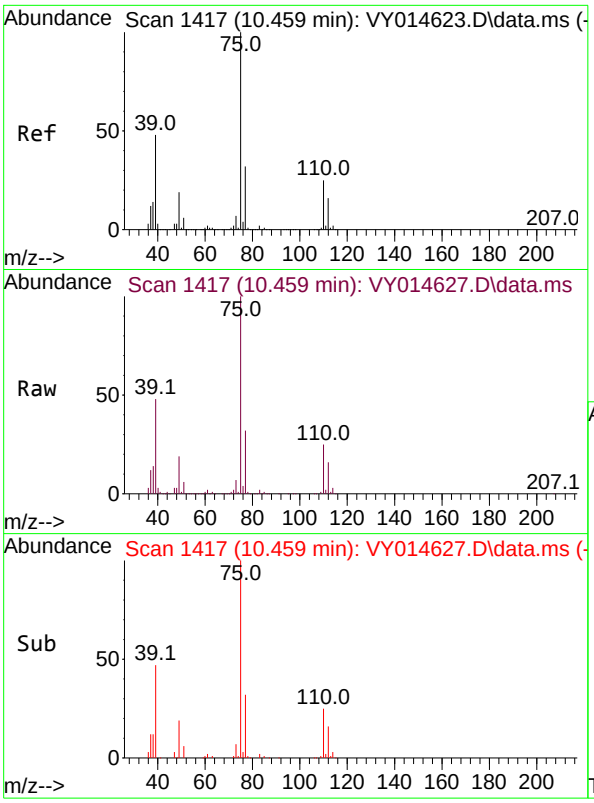


#52
Toluene
Concen: 20.572 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 92 Resp: 201402

Ion	Ratio	Lower	Upper
92	100		
91	169.8	143.8	215.6

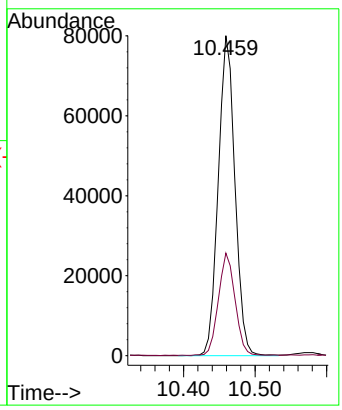




#53
t-1,3-Dichloropropene
Concen: 20.746 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 12962

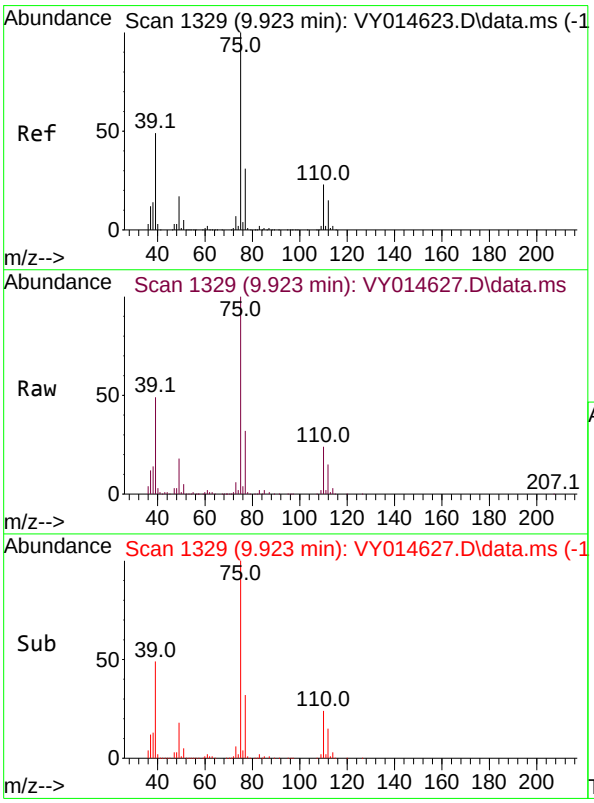
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

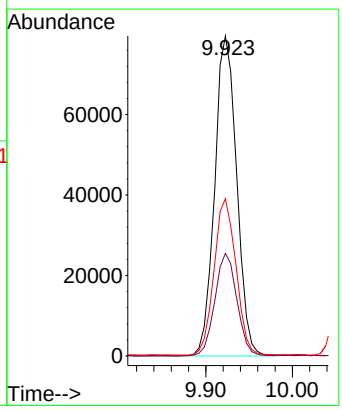
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

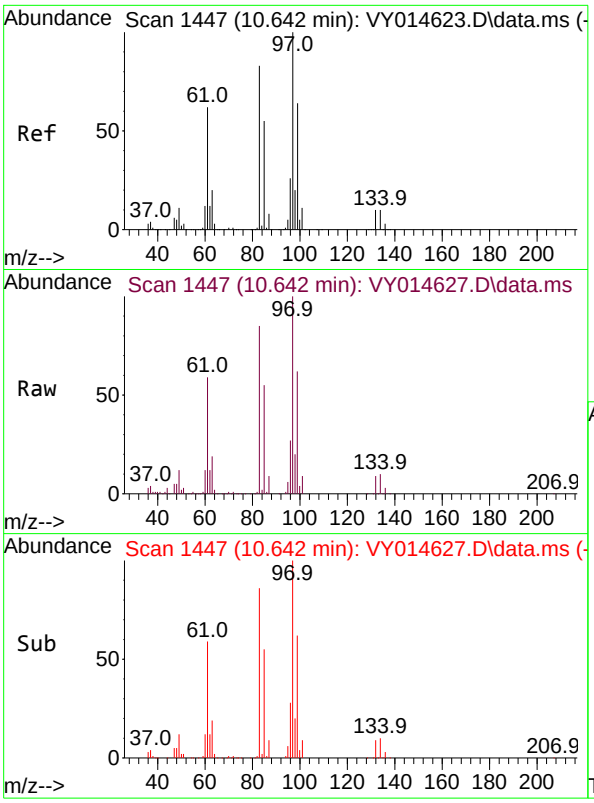


#54
cis-1,3-Dichloropropene
Concen: 20.637 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 140222

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.2	36.4
39	48.8	42.2	63.4

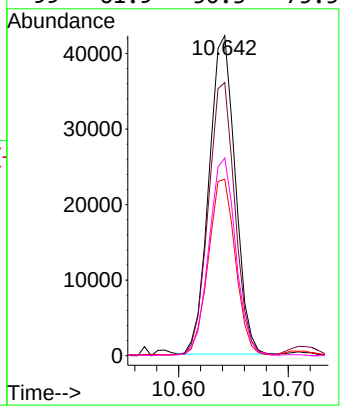




#55
1,1,2-Trichloroethane
Concen: 20.809 ug/l
RT: 10.642 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 97 Resp: 7025

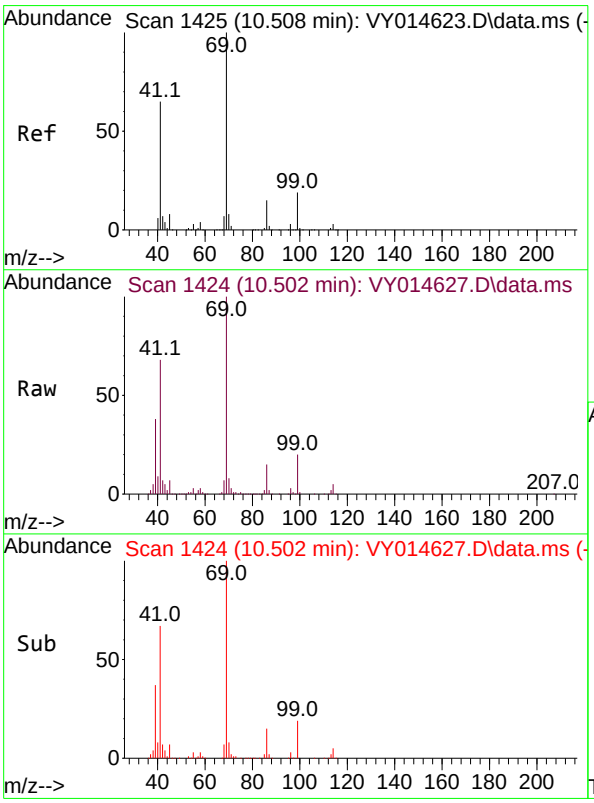
Ion	Ratio	Lower	Upper
97	100		
83	85.4	72.0	108.0
85	55.1	45.4	68.0
99	61.9	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

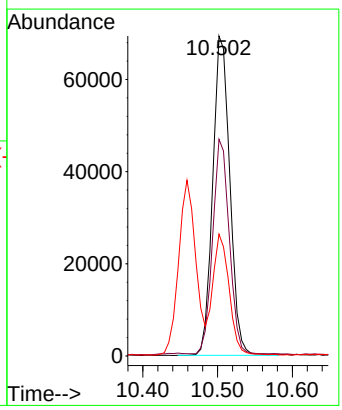
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

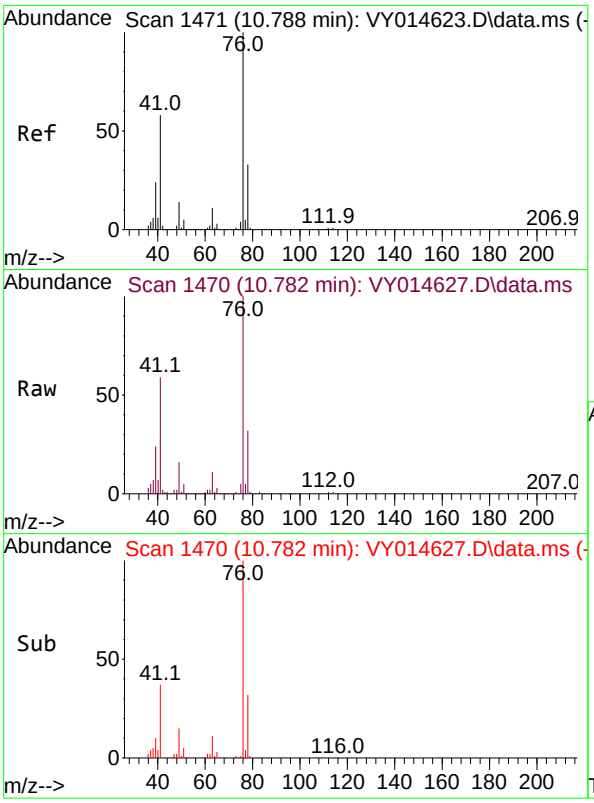


#56
Ethyl methacrylate
Concen: 21.448 ug/l
RT: 10.502 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 69 Resp: 110555

Ion	Ratio	Lower	Upper
69	100		
41	65.3	57.6	86.4
39	36.2	34.1	51.1





#57
1,3-Dichloropropane
Concen: 20.988 ug/l
RT: 10.782 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

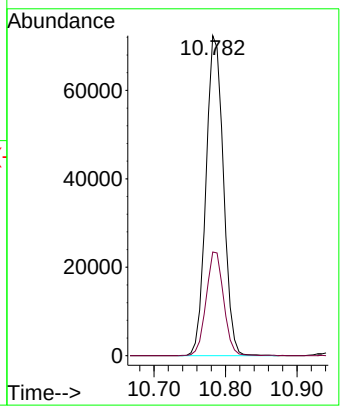
Tgt Ion: 76 Resp: 12221

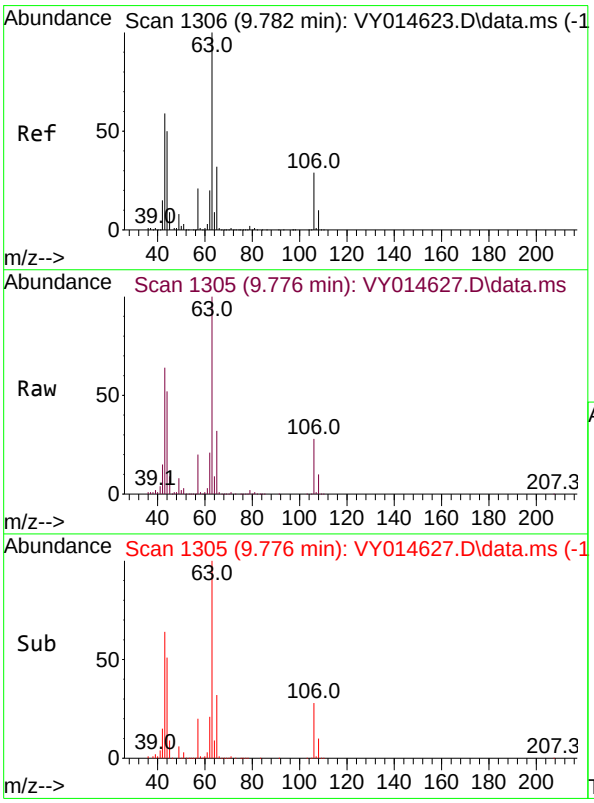
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

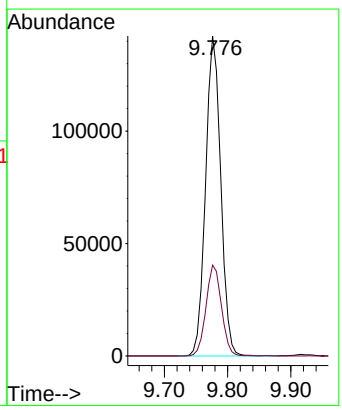


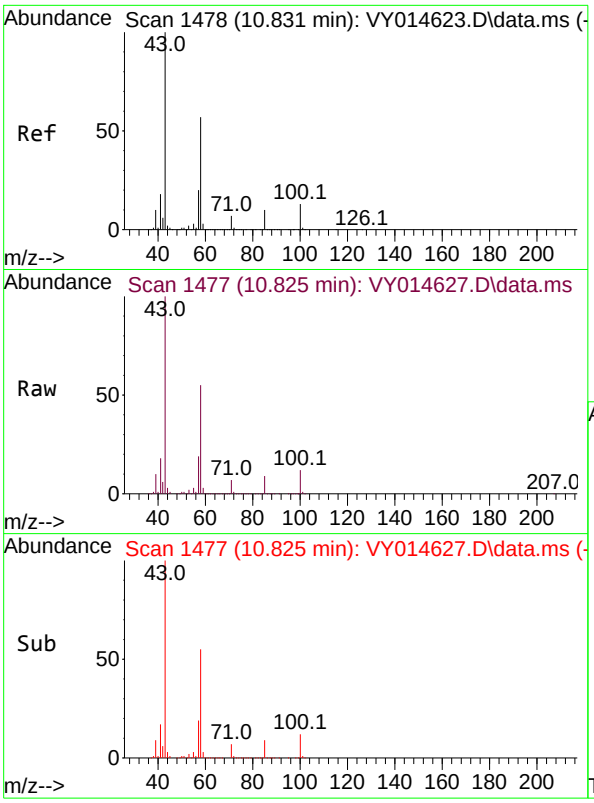


#58
2-Chloroethyl Vinyl ether
Concen: 98.758 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 63 Resp: 237189

Ion	Ratio	Lower	Upper
63	100		
106	28.9	21.2	31.8





#59
2-Hexanone
Concen: 113.827 ug/l
RT: 10.825 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

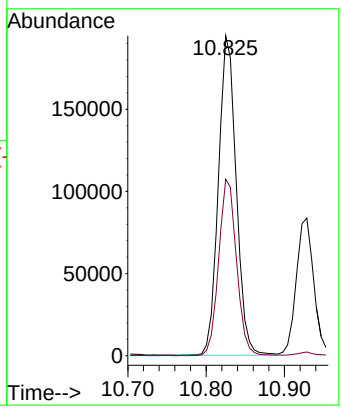
Tgt Ion: 43 Resp: 30749

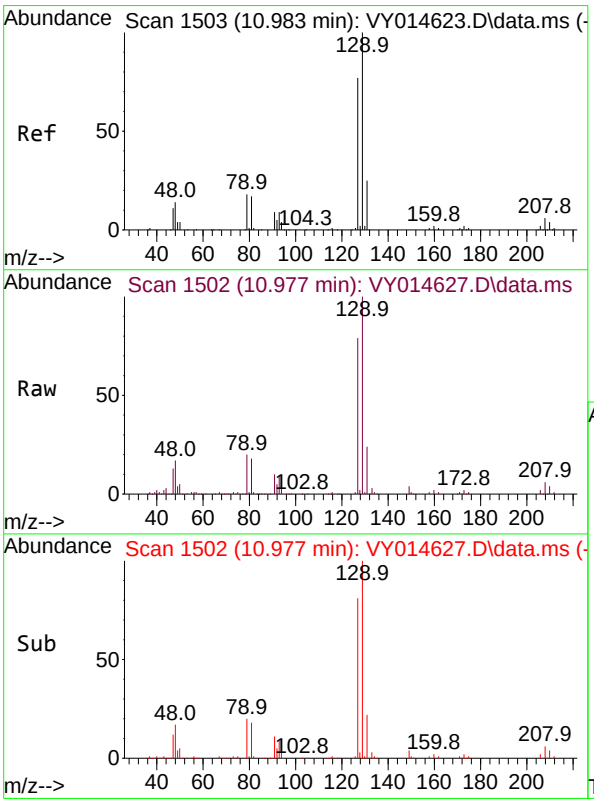
Ion	Ratio	Lower	Upper
43	100		
58	55.5	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

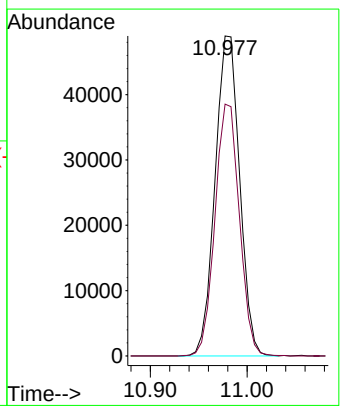


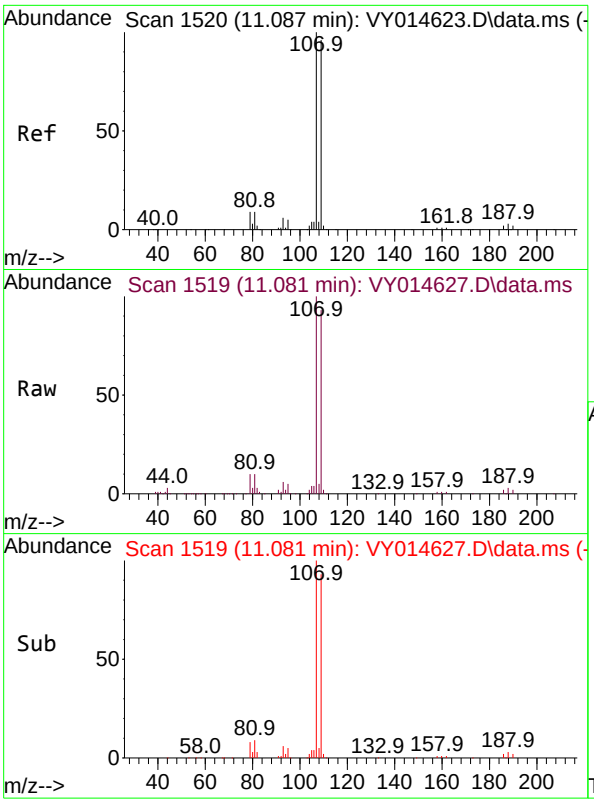


#60
Dibromochloromethane
Concen: 20.851 ug/l
RT: 10.977 min Scan# 1502
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:129 Resp: 86307

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.5

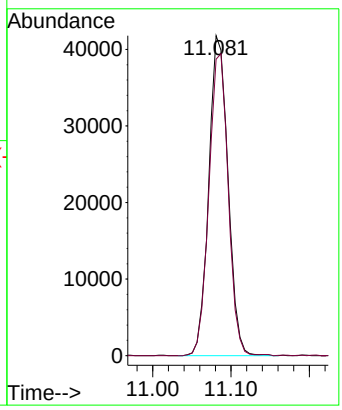




#61
1,2-Dibromoethane
Concen: 21.122 ug/l
RT: 11.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:107 Resp: 7113

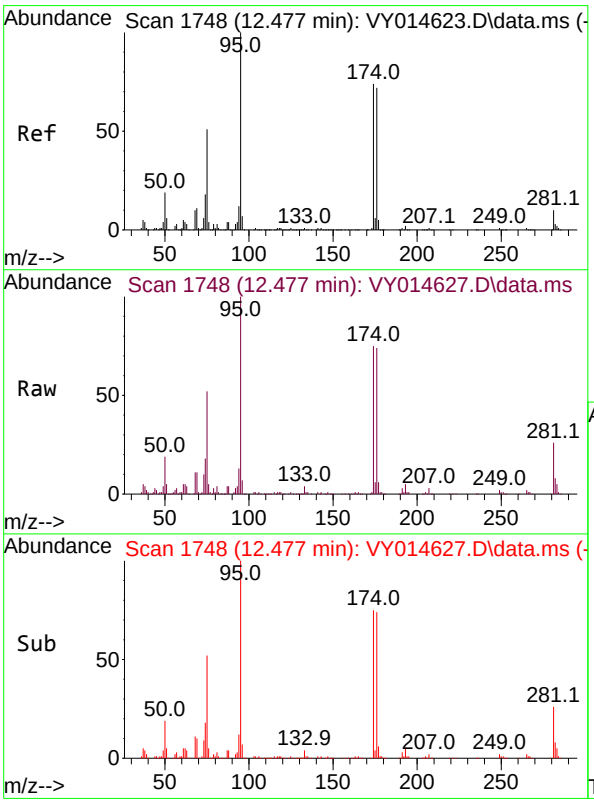
Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

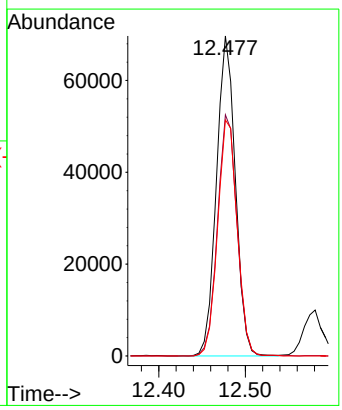
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

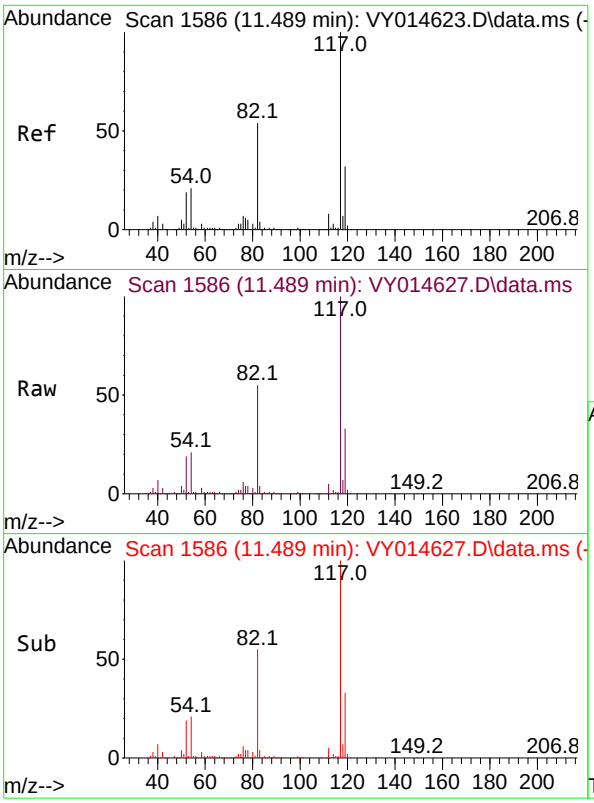


#62
4-Bromofluorobenzene
Concen: 20.810 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 95 Resp: 105822

Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	178.2
176	76.1	0.0	173.8

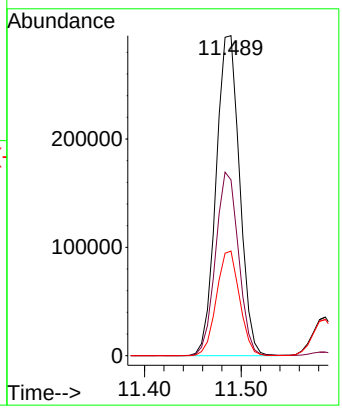




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:117 Resp: 49735

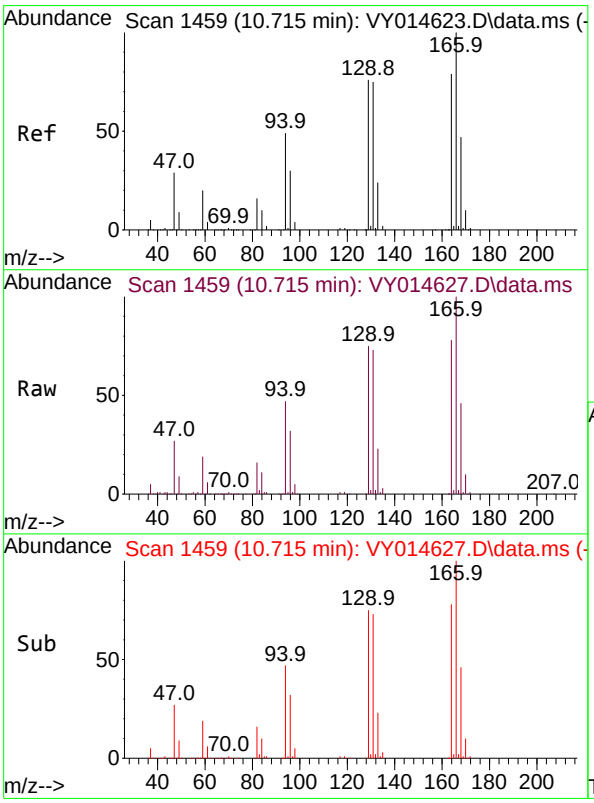
Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.4	65.0
119	32.7	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

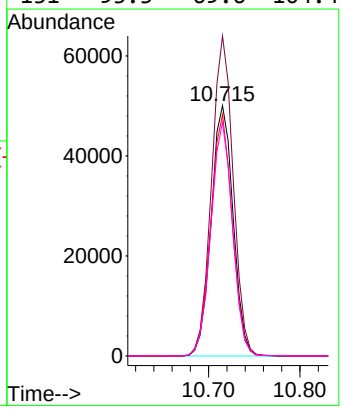
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

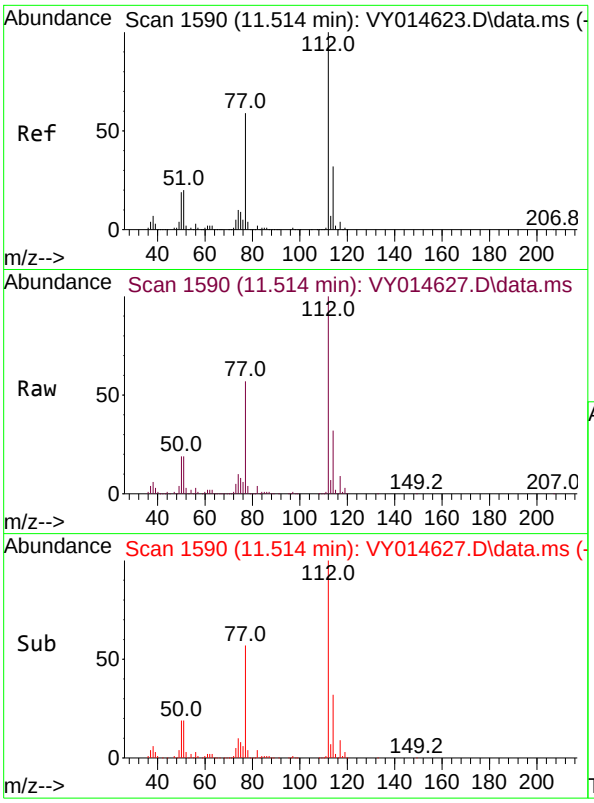


#64
Tetrachloroethene
Concen: 20.819 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:164 Resp: 83277

Ion	Ratio	Lower	Upper
164	100		
166	127.8	103.0	154.6
129	96.4	77.2	115.8
131	93.3	69.6	104.4

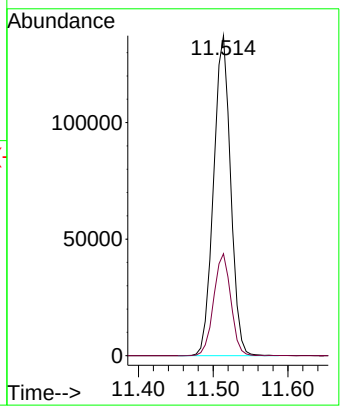




#65
Chlorobenzene
Concen: 20.566 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:112 Resp: 21796

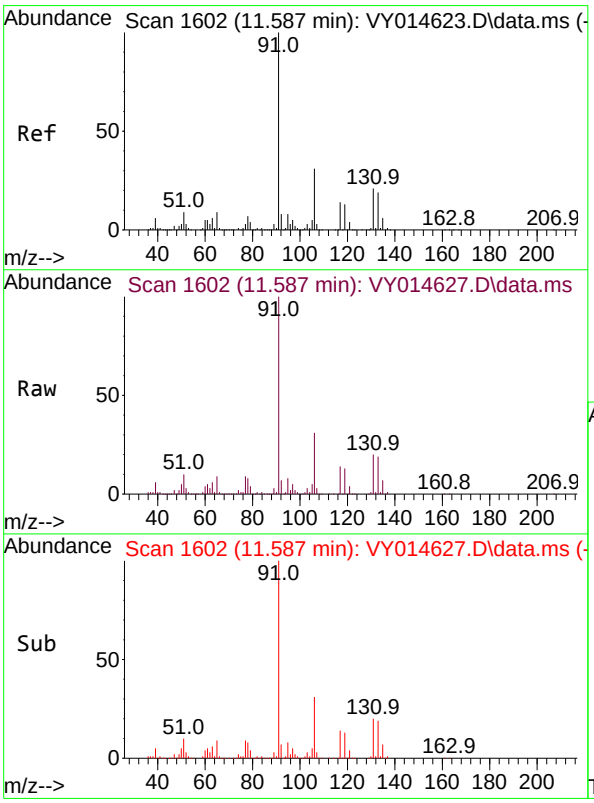
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

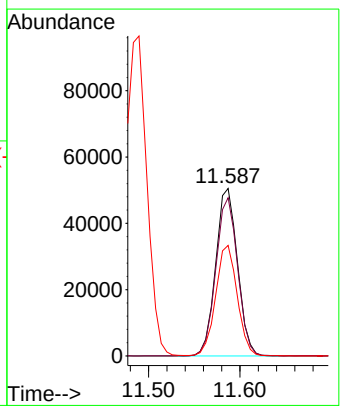
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

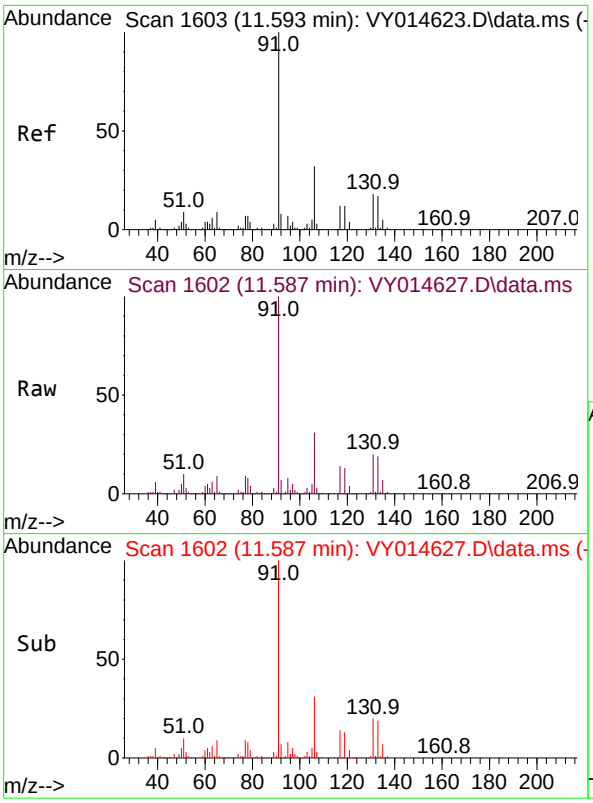


#66
1,1,1,2-Tetrachloroethane
Concen: 20.952 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:131 Resp: 83727

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.5	142.6
119	65.2	31.6	94.7

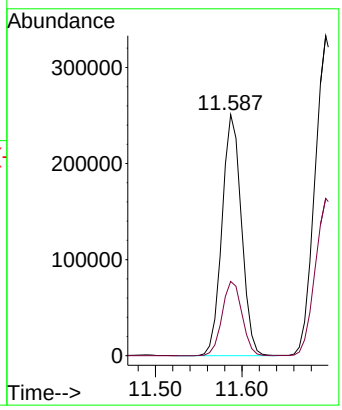




#67
Ethyl Benzene
Concen: 20.401 ug/l
RT: 11.587 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 91 Resp: 39037

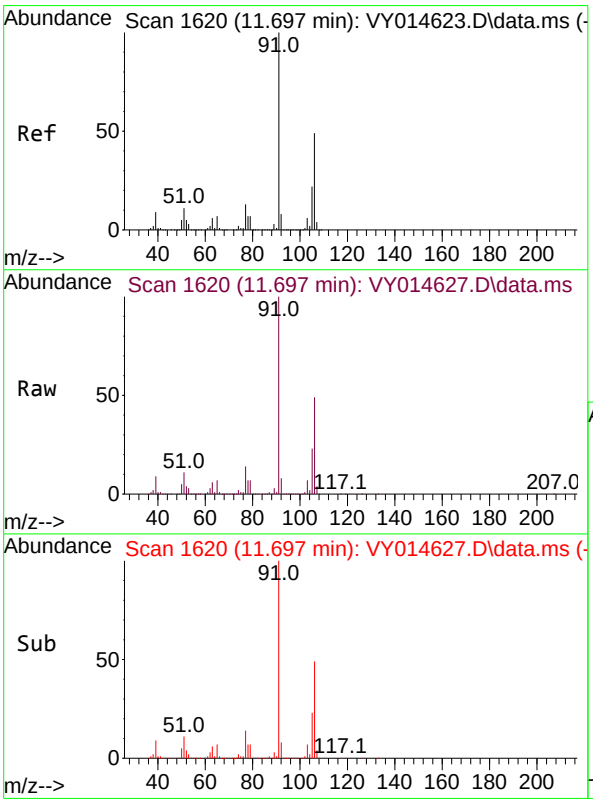
Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

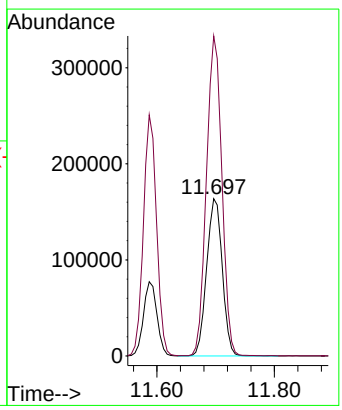
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

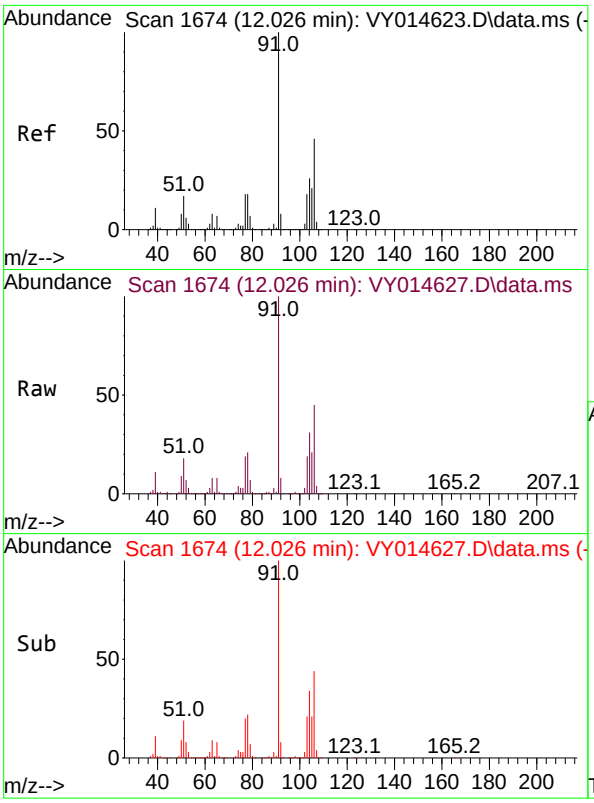


#68
m/p-Xylenes
Concen: 41.350 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:106 Resp: 302042

Ion	Ratio	Lower	Upper
106	100		
91	201.1	166.1	249.1





#69
o-Xylene
Concen: 20.422 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

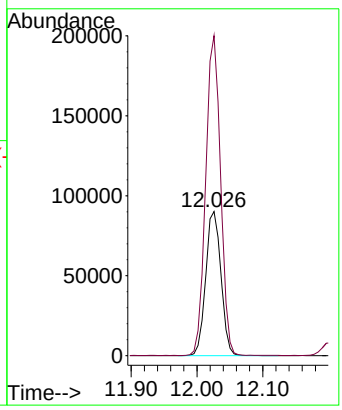
Tgt Ion:106 Resp: 14529

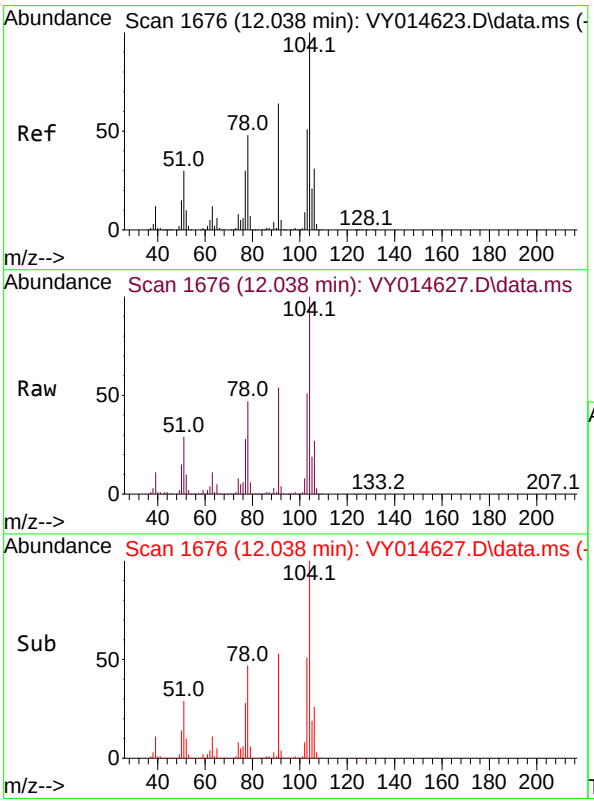
Ion	Ratio	Lower	Upper
106	100		
91	216.8	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

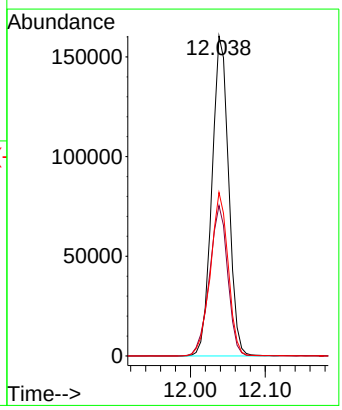


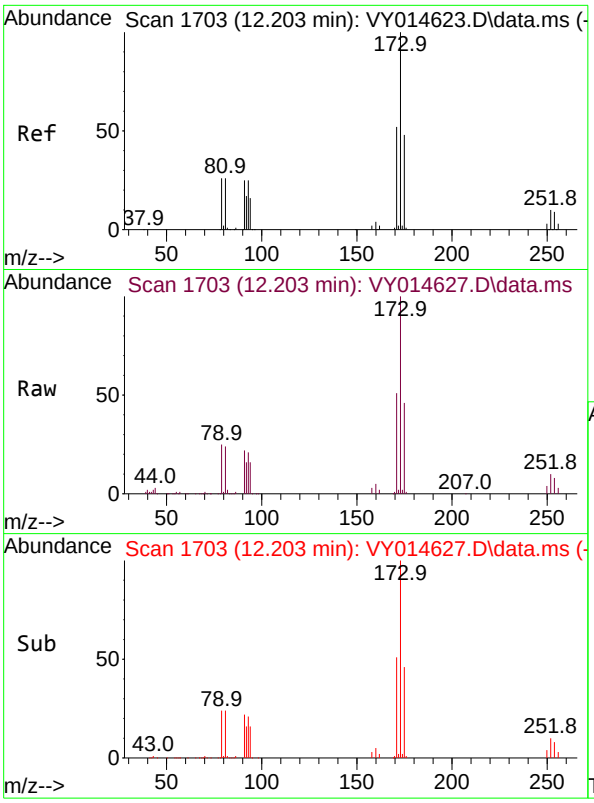


#70
Styrene
Concen: 20.843 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:104 Resp: 249927

Ion	Ratio	Lower	Upper
104	100		
78	51.1	41.5	62.3
103	54.4	44.6	67.0

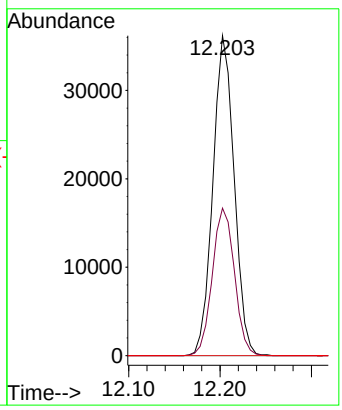




#71
Bromoform
Concen: 21.603 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:173 Resp: 5851

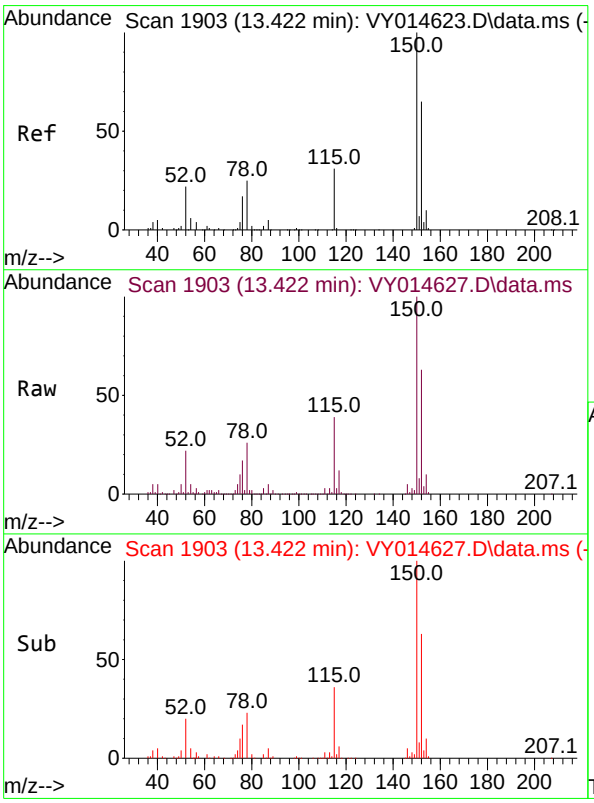
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

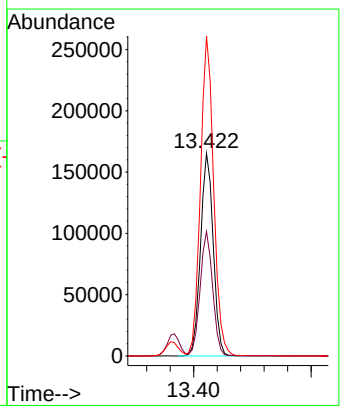
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

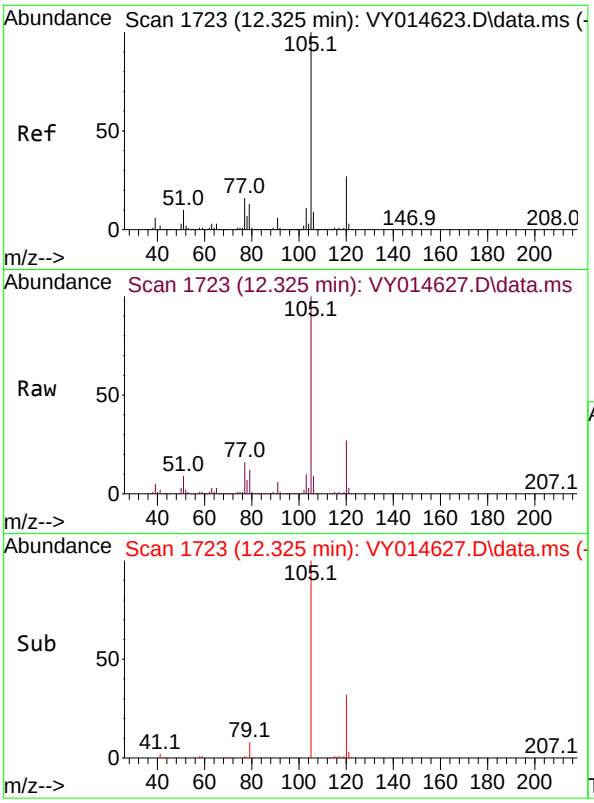


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:152 Resp: 248140

Ion	Ratio	Lower	Upper
152	100		
115	60.3	28.8	86.5
150	163.9	0.0	348.8

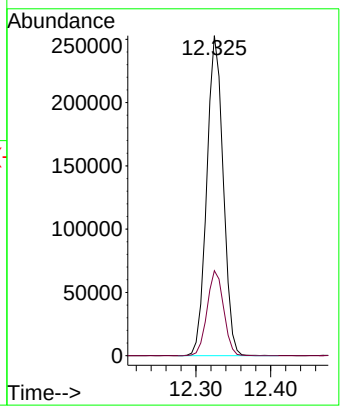




#73
Isopropylbenzene
Concen: 19.812 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:105 Resp: 38494

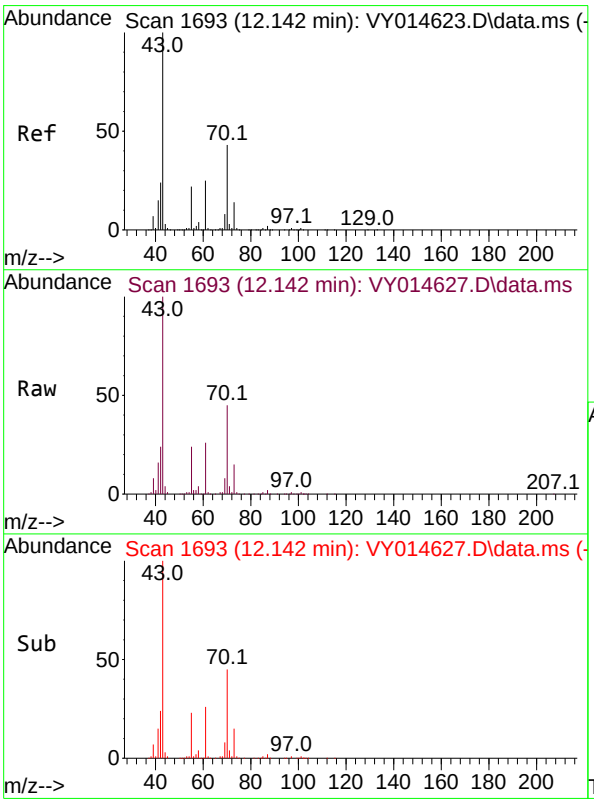
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

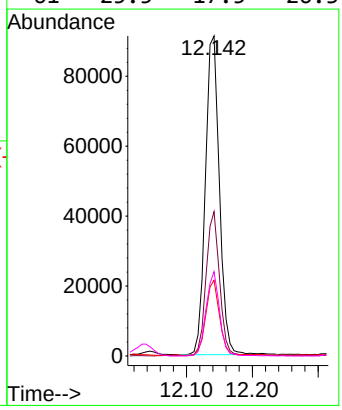
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

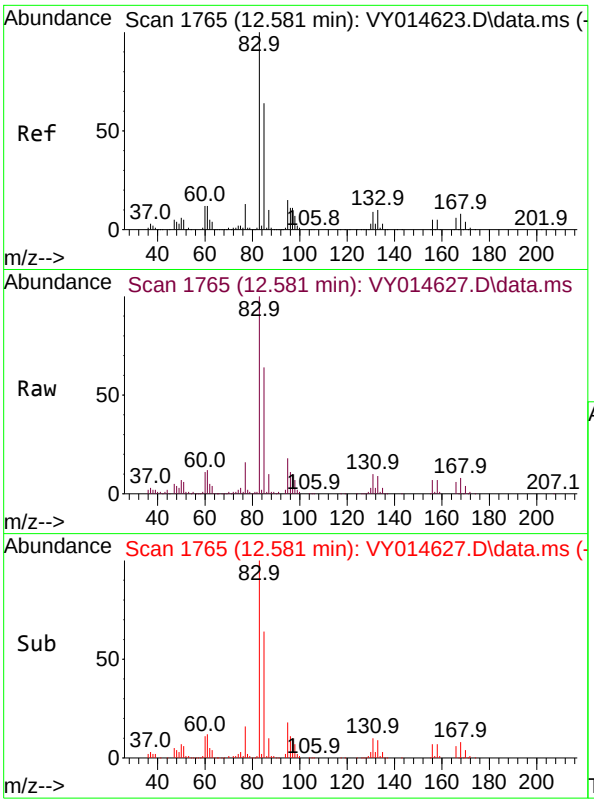


#74
N-amyl acetate
Concen: 20.835 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 43 Resp: 135582

Ion	Ratio	Lower	Upper
43	100		
70	43.0	29.7	44.5
55	22.5	18.3	27.5
61	25.5	17.5	26.3

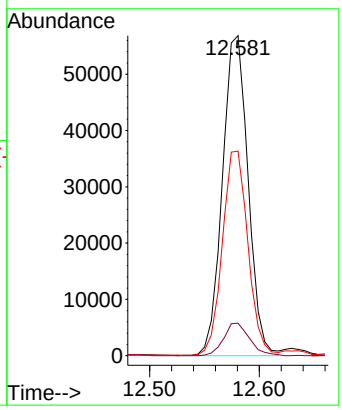




#75
1,1,2,2-Tetrachloroethane
Concen: 20.884 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 83 Resp: 9253

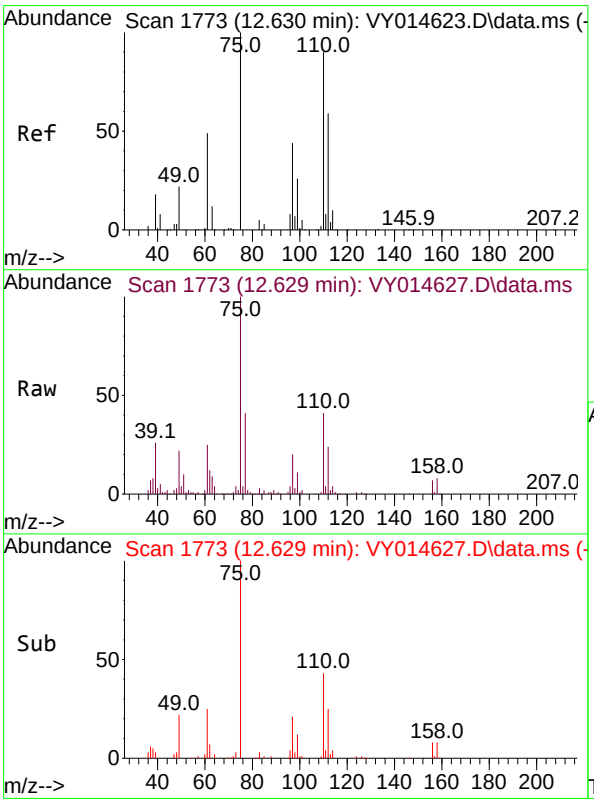
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.4	16.2
85	63.5	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

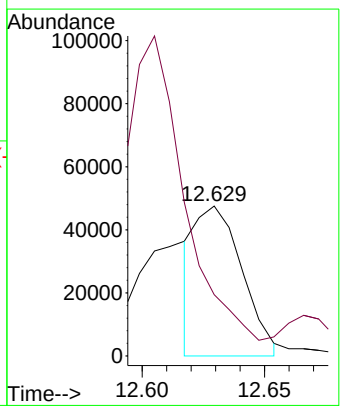
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

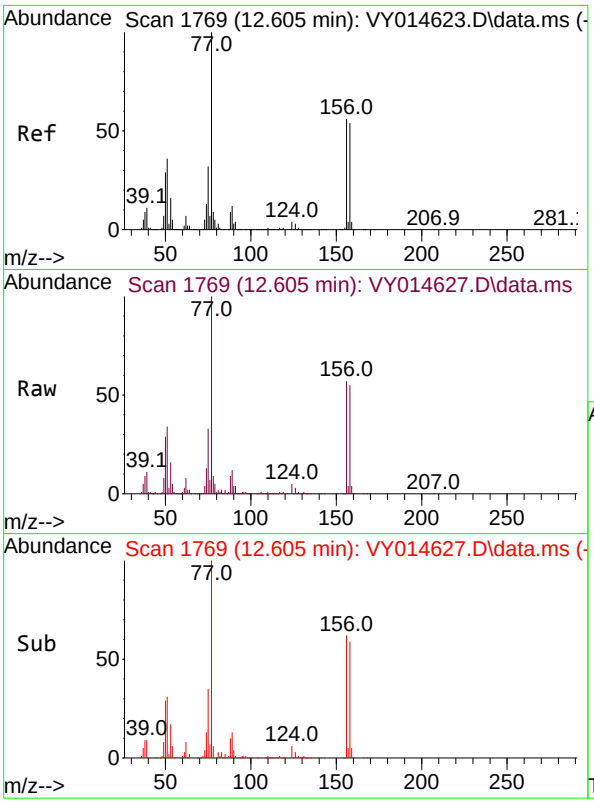


#76
1,2,3-Trichloropropane
Concen: 19.956 ug/l m
RT: 12.629 min Scan# 1773
Delta R.T. -0.001 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 63372

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

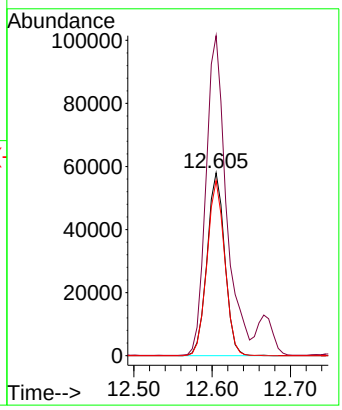




#77
Bromobenzene
Concen: 20.404 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:156 Resp: 9049

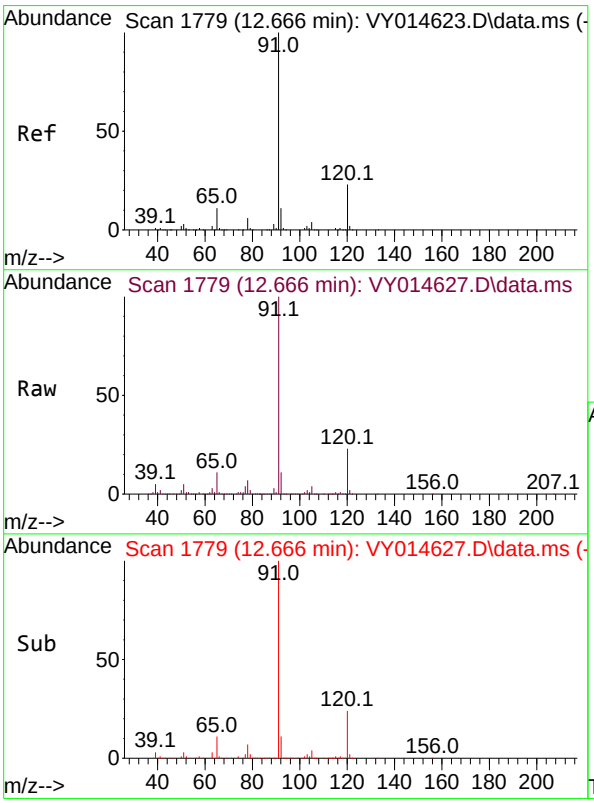
Ion	Ratio	Lower	Upper
156	100		
77	201.6	92.8	278.6
158	96.2	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

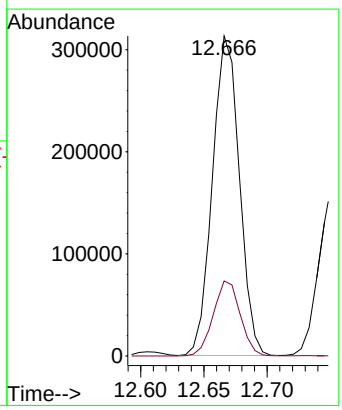
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

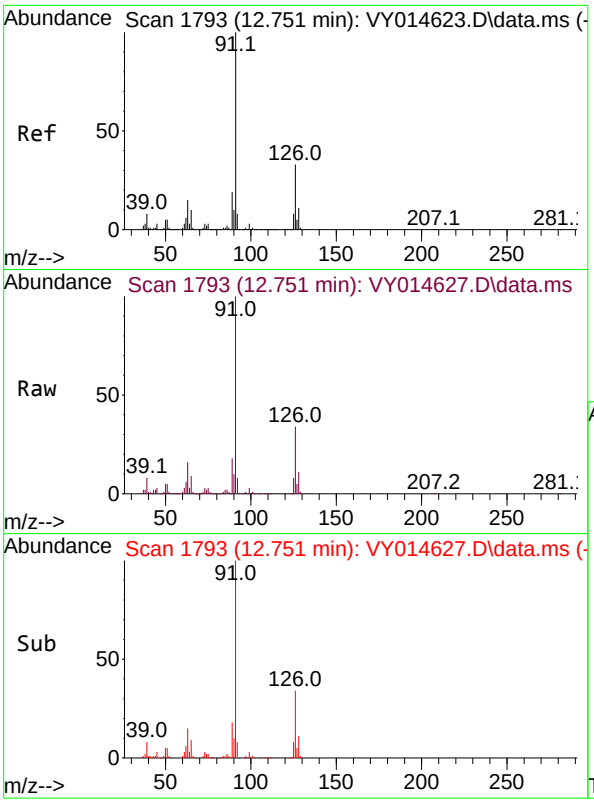


#78
n-propylbenzene
Concen: 19.791 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 91 Resp: 463351

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.4





#79
2-Chlorotoluene
Concen: 19.906 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

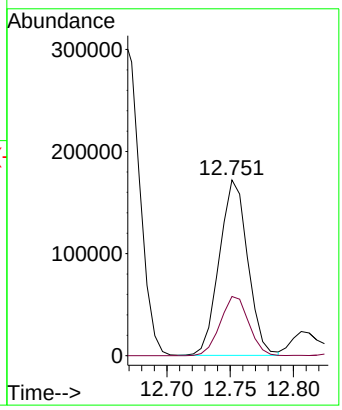
Tgt Ion: 91 Resp: 26844

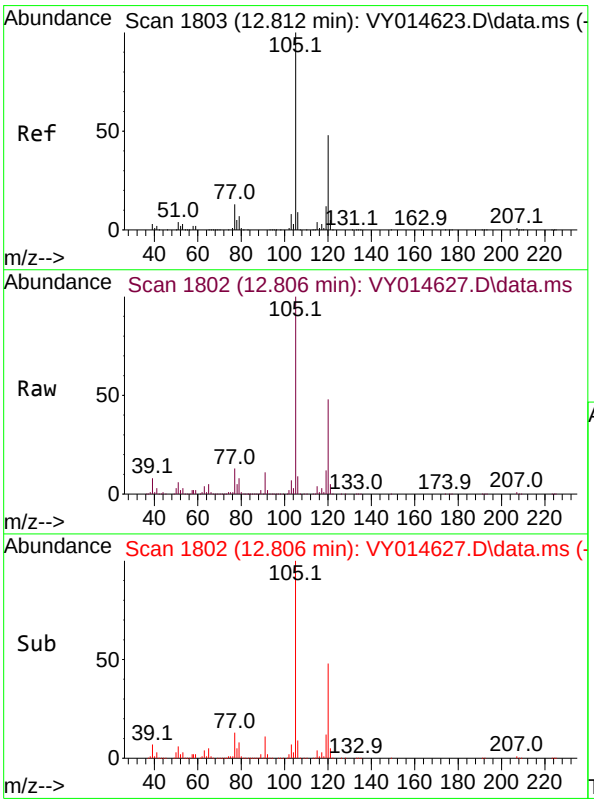
Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	51.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

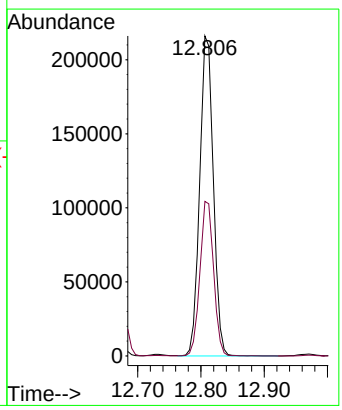


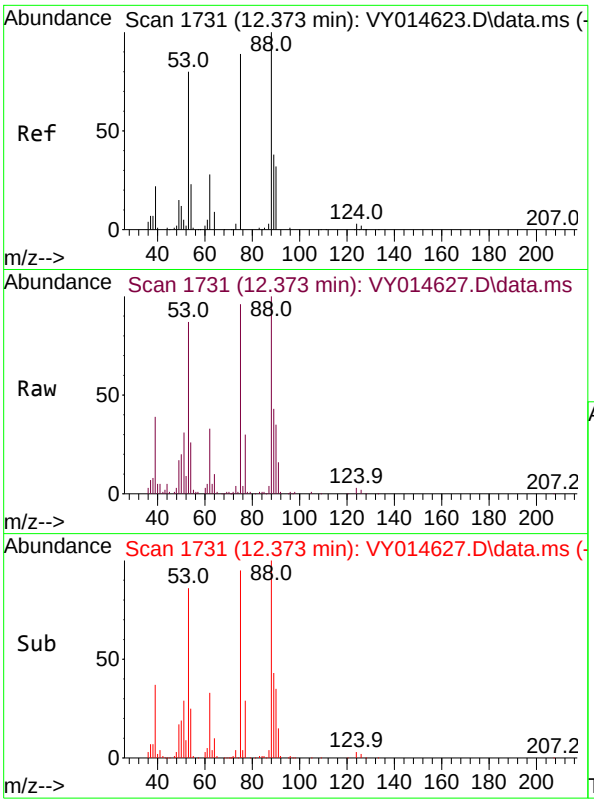


#80
1,3,5-Trimethylbenzene
Concen: 20.012 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:105 Resp: 324719

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.9	71.7

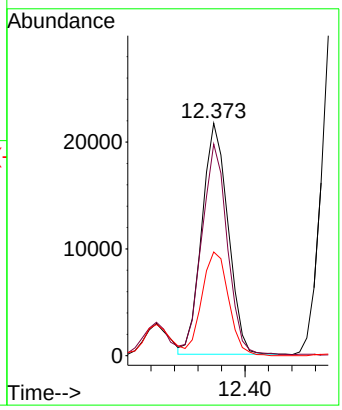




#81
trans-1,4-Dichloro-2-butene
Concen: 20.663 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 3344

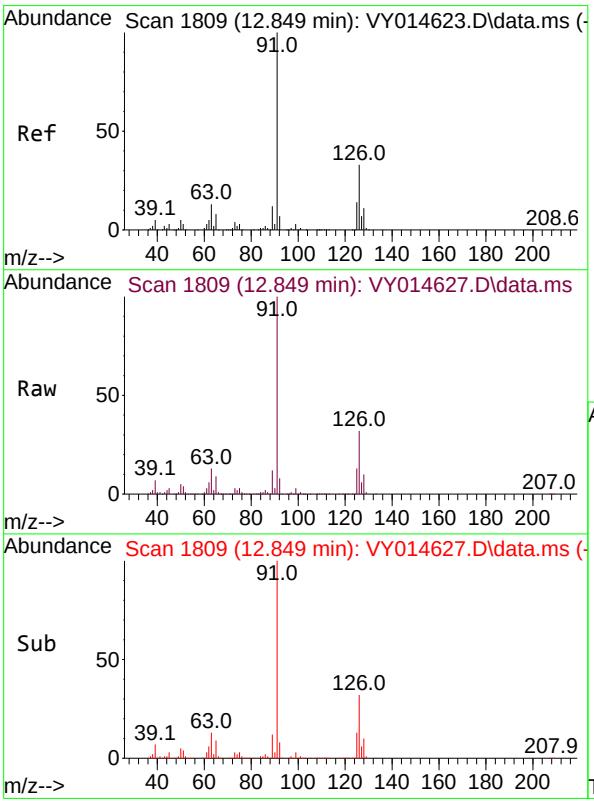
Ion	Ratio	Lower	Upper
75	100		
53	89.2	77.8	116.8
89	45.8	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

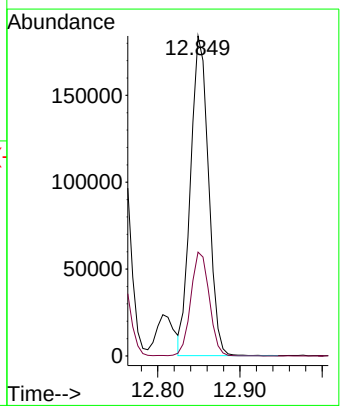
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

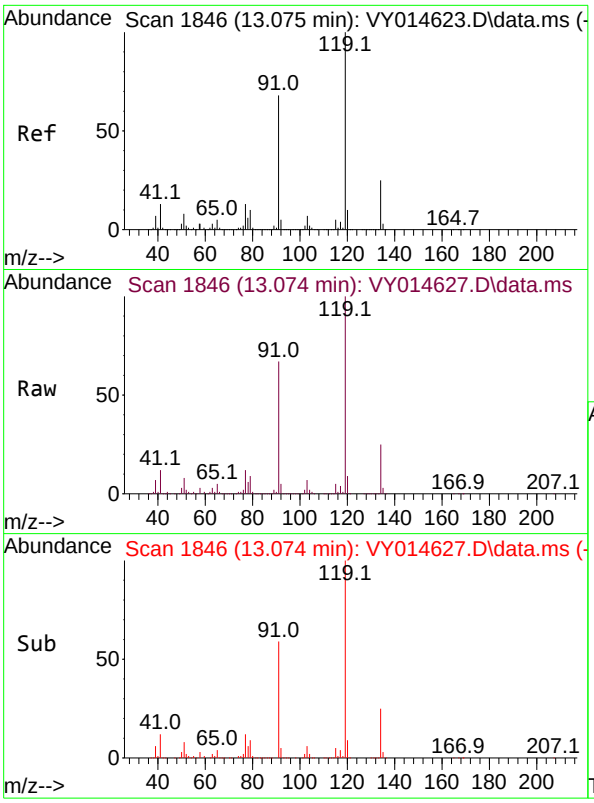


#82
4-Chlorotoluene
Concen: 20.099 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 91 Resp: 279148

Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.2	51.6

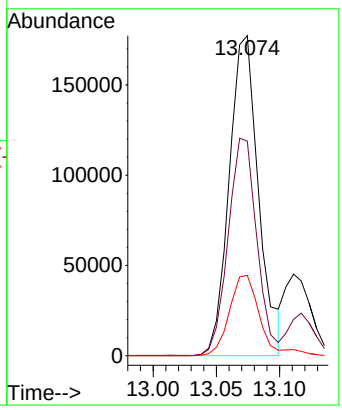




#83
tert-Butylbenzene
Concen: 19.916 ug/l
RT: 13.074 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:119 Resp: 28666

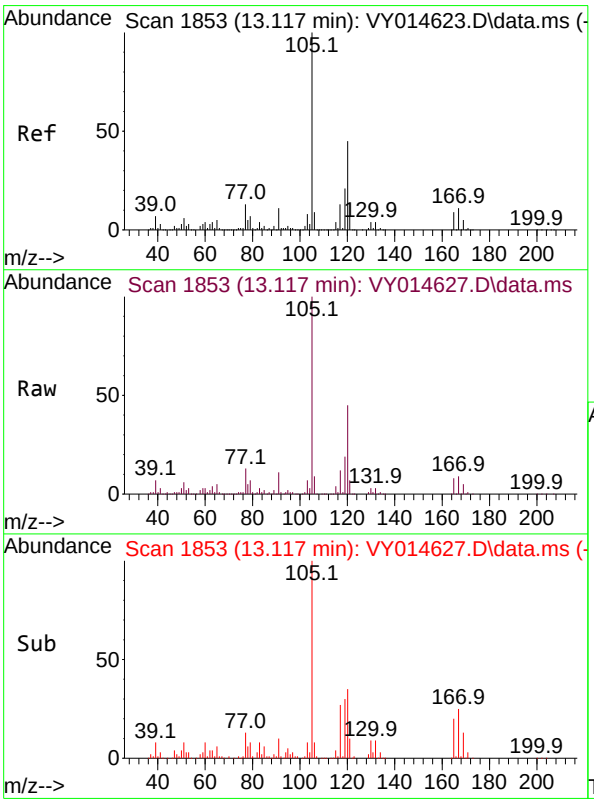
Ion	Ratio	Lower	Upper
119	100		
91	66.2	32.9	98.6
134	26.1	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

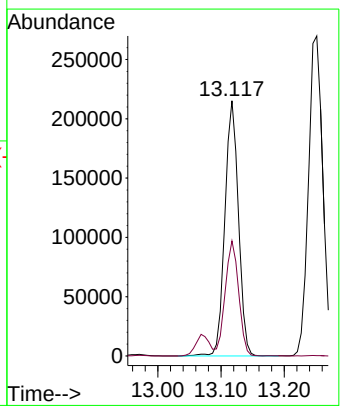
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

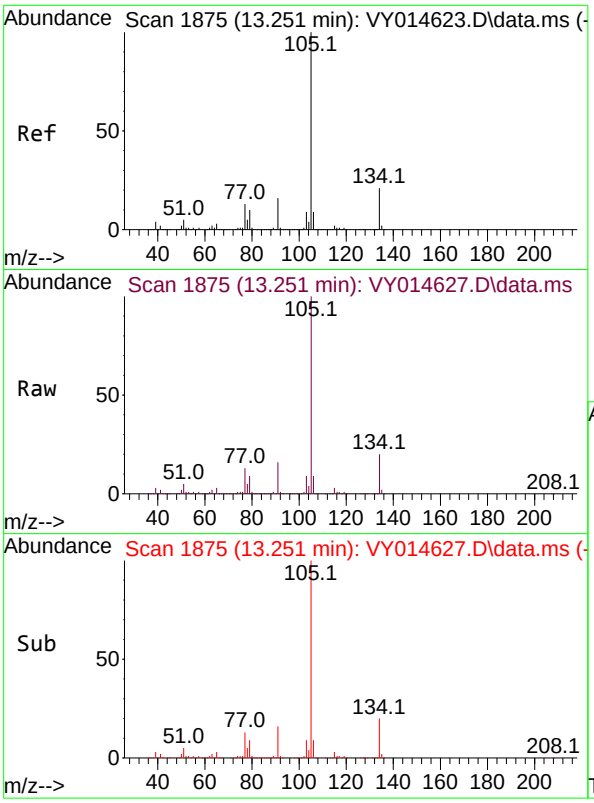


#84
1,2,4-Trimethylbenzene
Concen: 20.096 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:105 Resp: 320020

Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.2	66.6

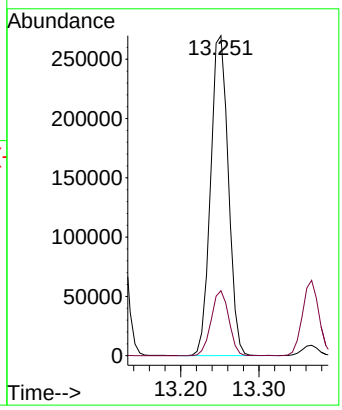




#85
sec-Butylbenzene
Concen: 20.042 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:105 Resp: 42319

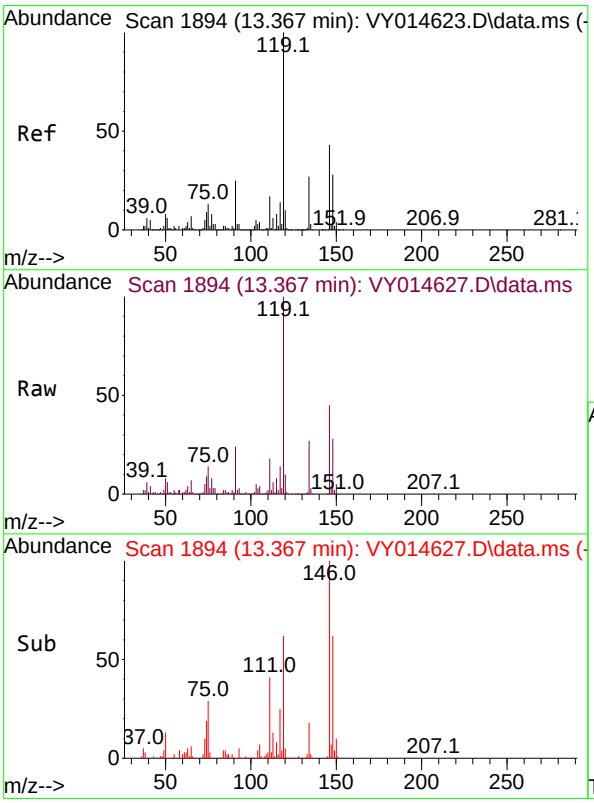
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

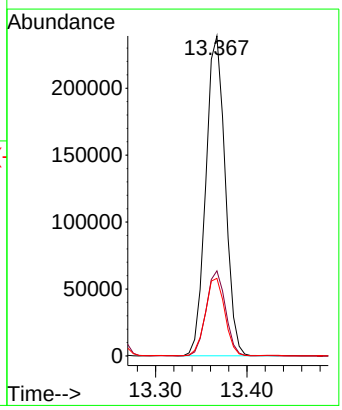
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

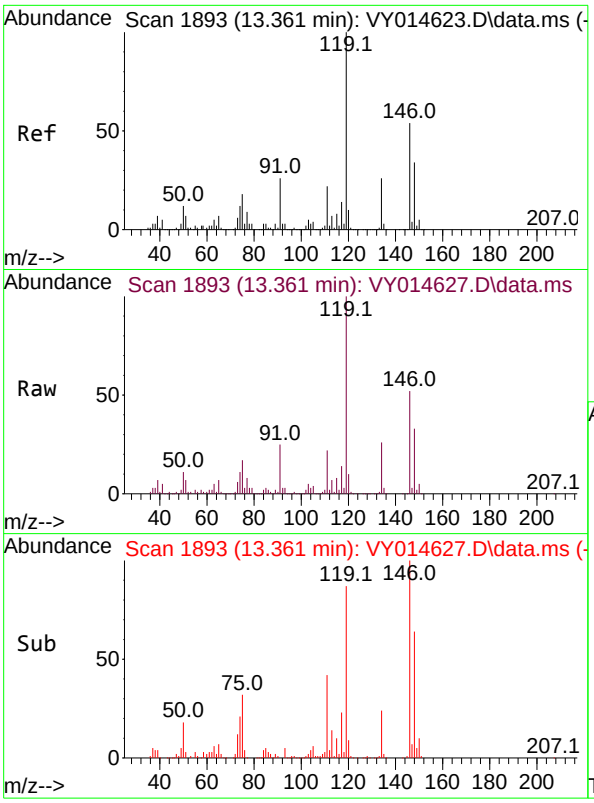


#86
p-Isopropyltoluene
Concen: 20.301 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:119 Resp: 349989

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.3	39.8
91	24.4	12.4	37.4

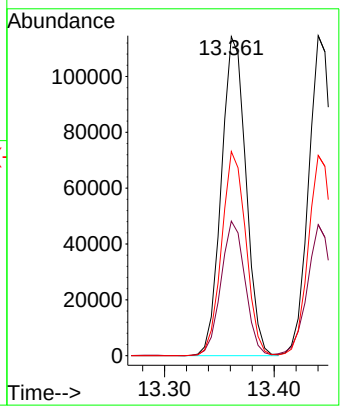




#87
1,3-Dichlorobenzene
Concen: 20.604 ug/l
RT: 13.361 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:146 Resp: 17784

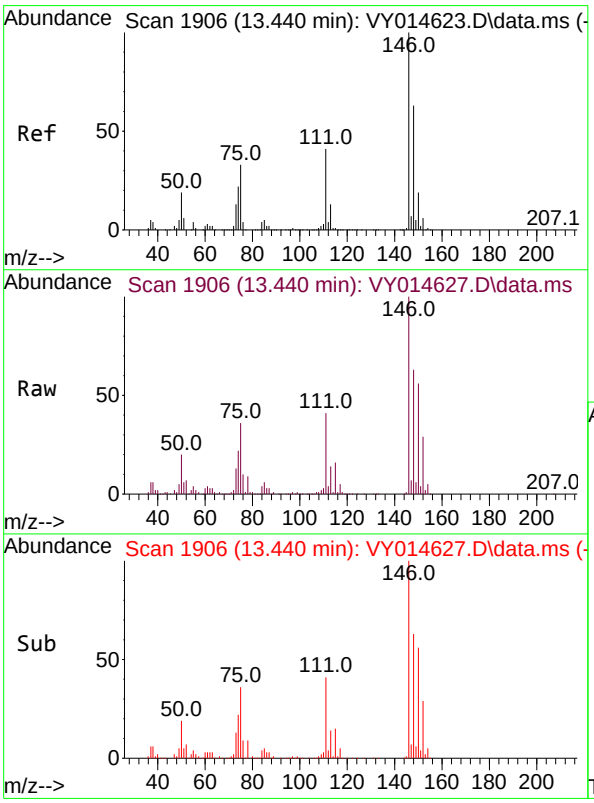
Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.4	58.2
148	63.2	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

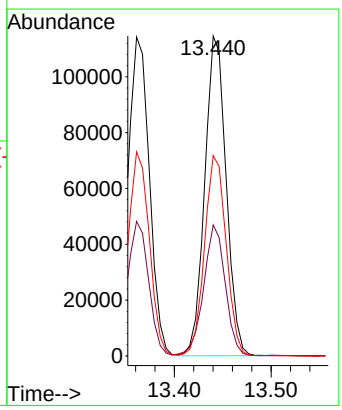
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

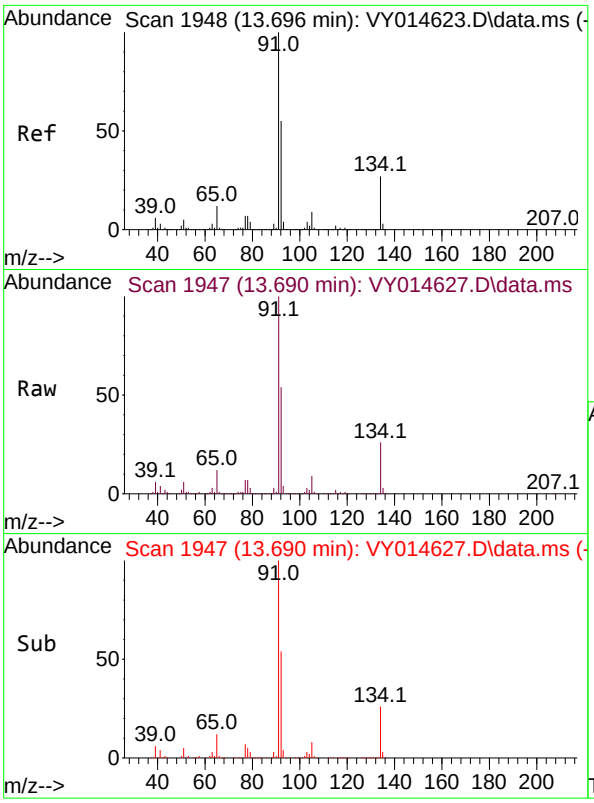


#88
1,4-Dichlorobenzene
Concen: 20.392 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:146 Resp: 176391

Ion	Ratio	Lower	Upper
146	100		
111	41.3	18.9	56.7
148	63.6	32.1	96.5

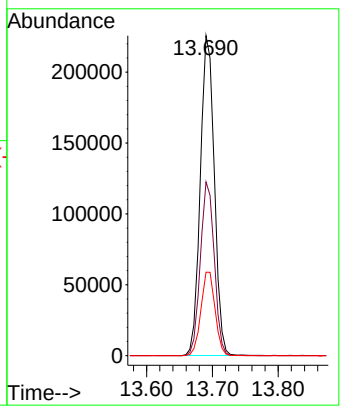




#89
n-Butylbenzene
Concen: 19.933 ug/l
RT: 13.690 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 91 Resp: 33433

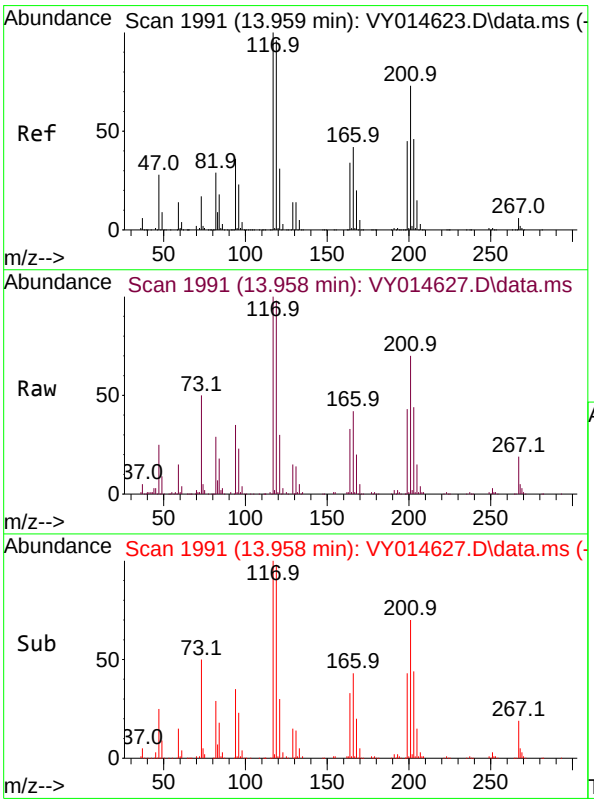
Ion	Ratio	Lower	Upper
91	100		
92	54.0	25.4	76.0
134	26.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

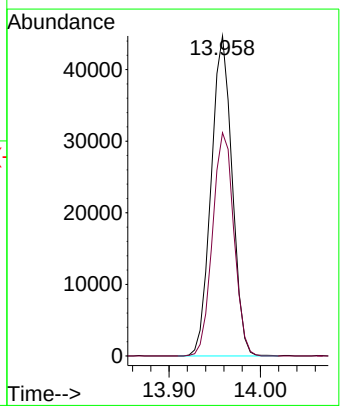
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

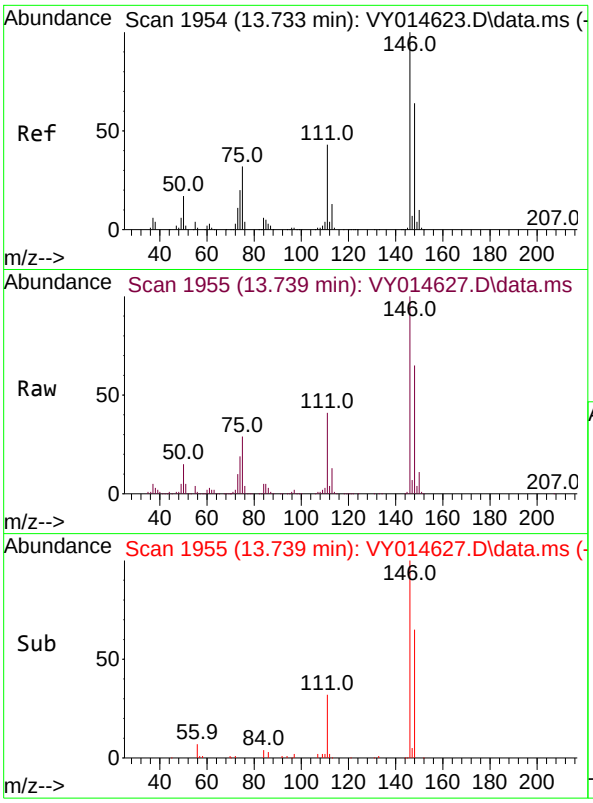


#90
Hexachloroethane
Concen: 20.100 ug/l
RT: 13.958 min Scan# 1991
Delta R.T. -0.001 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:117 Resp: 71176

Ion	Ratio	Lower	Upper
117	100		
201	71.2	41.6	124.8

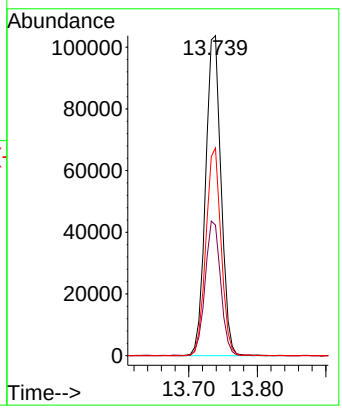




#91
1,2-Dichlorobenzene
Concen: 20.545 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:146 Resp: 16247

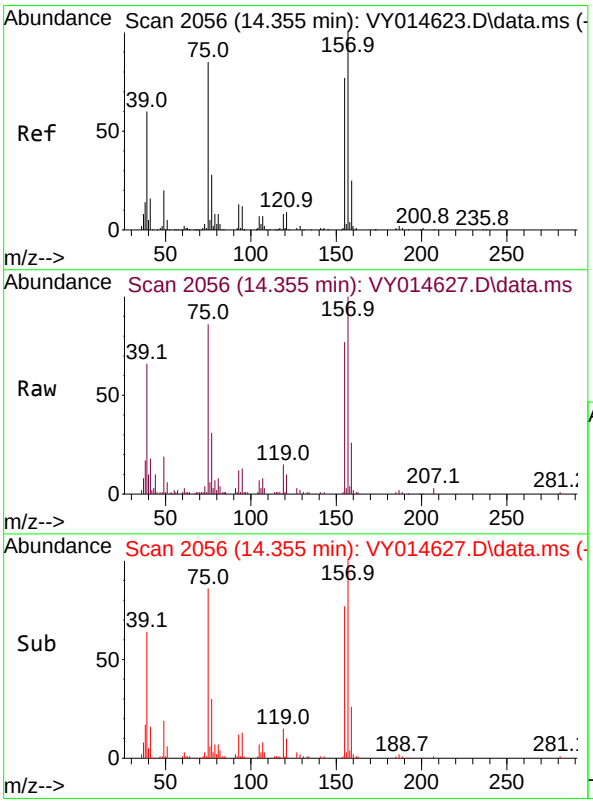
Ion	Ratio	Lower	Upper
146	100		
111	42.4	19.7	59.0
148	63.9	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

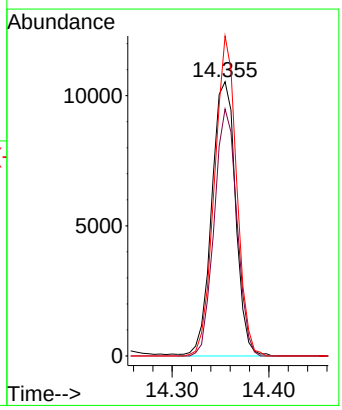
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

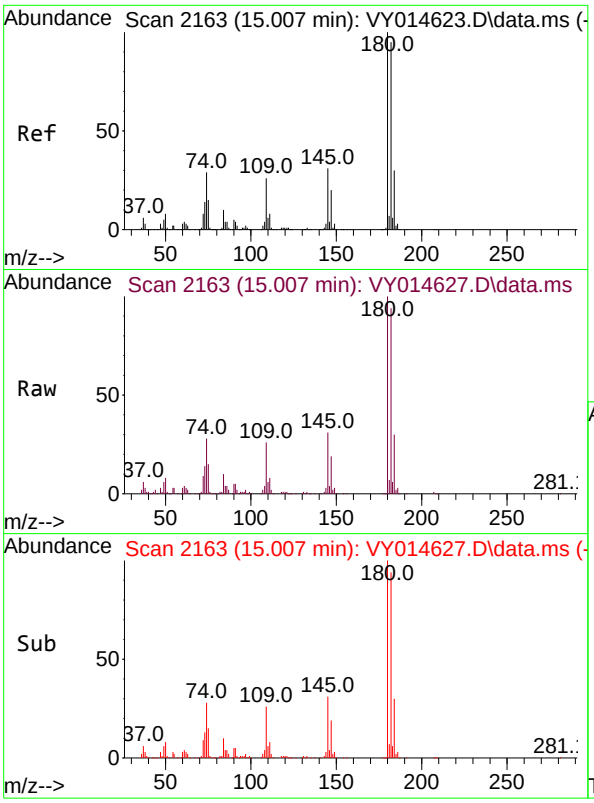


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.276 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion: 75 Resp: 18028

Ion	Ratio	Lower	Upper
75	100		
155	85.2	41.5	124.6
157	108.0	51.8	155.5

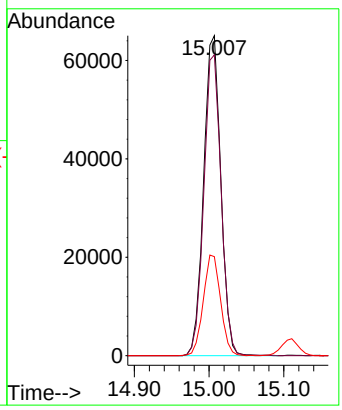




#93
1,2,4-Trichlorobenzene
Concen: 20.645 ug/l
RT: 15.007 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:180 Resp: 10364

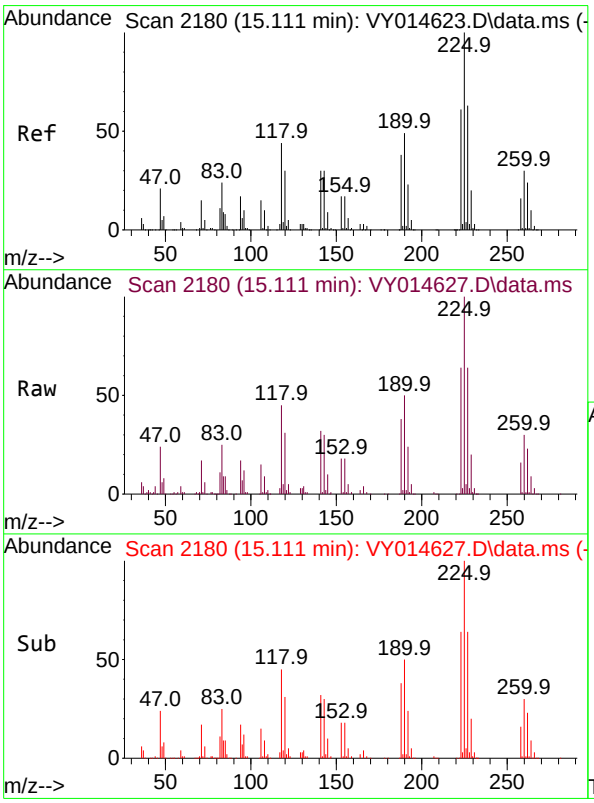
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.2
145	31.8	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

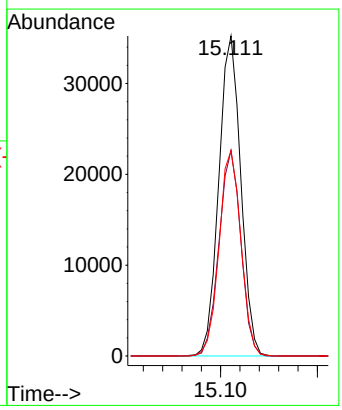
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

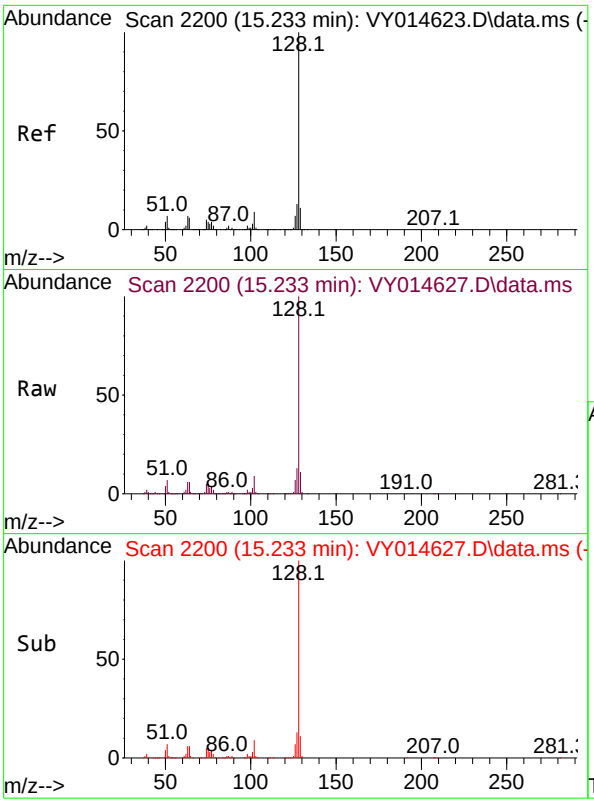


#94
Hexachlorobutadiene
Concen: 20.130 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:225 Resp: 55533

Ion	Ratio	Lower	Upper
225	100		
223	63.5	31.9	95.9
227	63.7	33.0	98.9

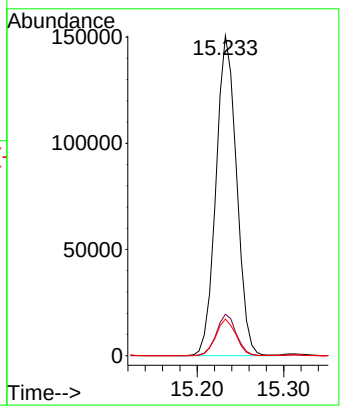




#95
Naphthalene
Concen: 21.256 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:128 Resp: 24861

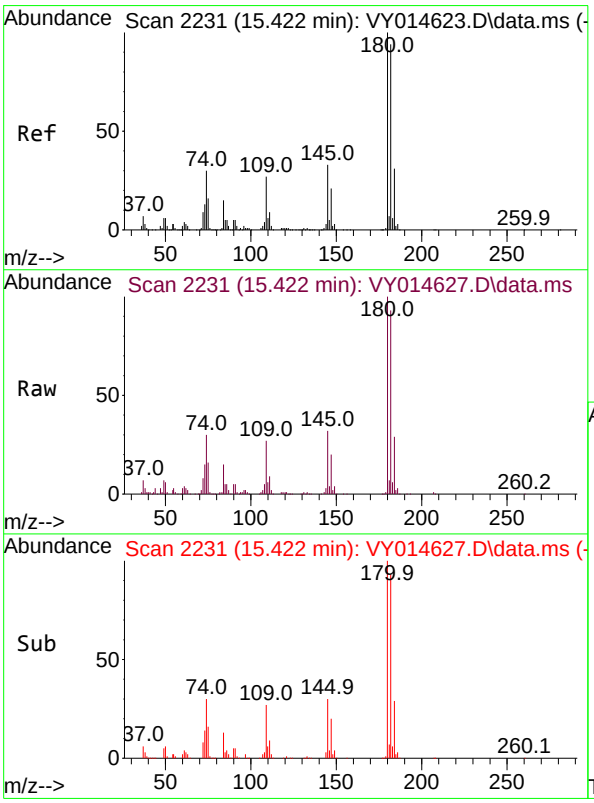
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.8	16.2
129	11.1	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

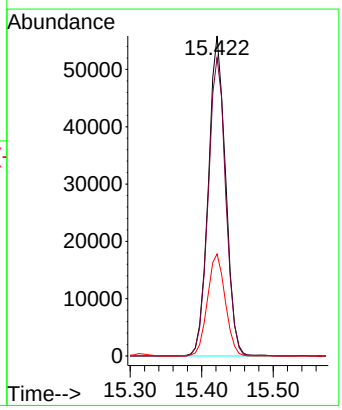
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 20.947 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014627.D
Acq: 13 Jul 2023 13:31

Tgt Ion:180 Resp: 93460

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.3	141.8
145	32.8	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.777	168	327229	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.679	114	536980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	472279	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	232652	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	174023	46.669	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.340%			
35) Dibromofluoromethane	7.704	113	163430	47.811	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.620%			
50) Toluene-d8	10.173	98	592382	47.005	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.020%			
62) 4-Bromofluorobenzene	12.477	95	227225	47.022	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	120981	45.380	ug/l	96
3) Chloromethane	2.107	50	145514	48.556	ug/l	98
4) Vinyl Chloride	2.241	62	163421	48.793	ug/l	97
5) Bromomethane	2.631	94	109040	49.264	ug/l	99
6) Chloroethane	2.778	64	103108	49.285	ug/l	98
7) Trichlorofluoromethane	3.107	101	278523	49.515	ug/l	100
8) Diethyl Ether	3.515	74	104060	49.720	ug/l	88
9) 1,1,2-Trichlorotrifluo...	3.881	101	170012	49.311	ug/l	95
10) Methyl Iodide	4.070	142	179581	49.175	ug/l	96
11) Tert butyl alcohol	4.942	59	164522	209.229	ug/l #	86
12) 1,1-Dichloroethene	3.857	96	158384	49.151	ug/l	94
13) Acrolein	3.716	56	81947	210.259	ug/l	99
14) Allyl chloride	4.460	41	277735	48.542	ug/l	95
15) Acrylonitrile	5.143	53	283730	245.842	ug/l	97
16) Acetone	3.936	43	305589	258.614	ug/l	92
17) Carbon Disulfide	4.180	76	433101	46.946	ug/l	99
18) Methyl Acetate	4.460	43	217828	48.037	ug/l	93
19) Methyl tert-butyl Ether	5.204	73	519471	49.627	ug/l	99
20) Methylene Chloride	4.698	84	194430	50.710	ug/l	91
21) trans-1,2-Dichloroethene	5.204	96	178722	48.873	ug/l	98
22) Diisopropyl ether	6.106	45	578311	49.716	ug/l	90
23) Vinyl Acetate	6.045	43	1720917	247.218	ug/l	95
24) 1,1-Dichloroethane	6.003	63	328632	49.375	ug/l	97
25) 2-Butanone	6.972	43	422236	244.246	ug/l	95
26) 2,2-Dichloropropane	6.966	77	317958	50.124	ug/l	99
27) cis-1,2-Dichloroethene	6.972	96	211104	49.595	ug/l	98
28) Bromochloromethane	7.320	49	134763	47.012	ug/l	97
29) Tetrahydrofuran	7.332	42	251521	236.286	ug/l	93
30) Chloroform	7.496	83	339372	49.446	ug/l	96
31) Cyclohexane	7.777	56	285519	46.126	ug/l	93
32) 1,1,1-Trichloroethane	7.691	97	306465	49.612	ug/l	99
36) 1,1-Dichloropropene	7.905	75	253236	49.538	ug/l	99
37) Ethyl Acetate	7.063	43	169952	48.288	ug/l #	95
38) Carbon Tetrachloride	7.886	117	268615	49.709	ug/l	98
39) Methylcyclohexane	9.173	83	325134	48.820	ug/l	98
40) Benzene	8.149	78	727040	50.008	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.295	41	89591	49.489	ug/l		95
42) 1,2-Dichloroethane	8.228	62	230330	50.028	ug/l		94
43) Isopropyl Acetate	8.264	43	327066	48.784	ug/l		96
44) Trichloroethene	8.929	130	203462	50.018	ug/l		98
45) 1,2-Dichloropropane	9.209	63	190328	50.134	ug/l		98
46) Dibromomethane	9.295	93	114022	49.509	ug/l		96
47) Bromodichloromethane	9.490	83	274910	50.646	ug/l		99
48) Methyl methacrylate	9.283	41	148418	49.197	ug/l		93
49) 1,4-Dioxane	9.289	88	37358	994.793	ug/l	#	61
51) 4-Methyl-2-Pentanone	10.063	43	863118	245.195	ug/l		94
52) Toluene	10.240	92	463942	49.869	ug/l		94
53) t-1,3-Dichloropropene	10.459	75	297662	50.133	ug/l		99
54) cis-1,3-Dichloropropene	9.923	75	322889	50.008	ug/l		94
55) 1,1,2-Trichloroethane	10.636	97	162471	50.644	ug/l		99
56) Ethyl methacrylate	10.502	69	244491	49.914	ug/l		91
57) 1,3-Dichloropropane	10.782	76	276336	49.940	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.776	63	568842	249.241	ug/l		95
59) 2-Hexanone	10.825	43	641108	249.743	ug/l		92
60) Dibromochloromethane	10.977	129	196919	50.064	ug/l		100
61) 1,2-Dibromoethane	11.081	107	159790	49.928	ug/l		99
64) Tetrachloroethene	10.715	164	184802	48.653	ug/l		96
65) Chlorobenzene	11.508	112	504493	50.128	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	194761	51.326	ug/l		99
67) Ethyl Benzene	11.587	91	906239	49.873	ug/l		99
68) m/p-Xylenes	11.697	106	695363	100.250	ug/l		97
69) o-Xylene	12.026	106	340297	50.370	ug/l		98
70) Styrene	12.038	104	574147	50.422	ug/l		99
71) Bromoform	12.203	173	129629	50.398	ug/l	#	99
73) Isopropylbenzene	12.325	105	901694	49.498	ug/l		99
74) N-amyl acetate	12.136	43	299735	49.128	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.575	83	202453	48.734	ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	133224m	45.340	ug/l		
77) Bromobenzene	12.605	156	208167	50.061	ug/l		94
78) n-propylbenzene	12.666	91	1086342	49.489	ug/l		99
79) 2-Chlorotoluene	12.751	91	625376	49.462	ug/l		99
80) 1,3,5-Trimethylbenzene	12.806	105	755413	49.654	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.373	75	75147	49.517	ug/l		93
82) 4-Chlorotoluene	12.849	91	643515	49.419	ug/l		99
83) tert-Butylbenzene	13.068	119	673803	49.928	ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	743106	49.771	ug/l		100
85) sec-Butylbenzene	13.251	105	986311	49.821	ug/l		100
86) p-Isopropyltoluene	13.367	119	815985	50.483	ug/l		99
87) 1,3-Dichlorobenzene	13.361	146	404430	49.972	ug/l		98
88) 1,4-Dichlorobenzene	13.440	146	407268	50.219	ug/l		98
89) n-Butylbenzene	13.690	91	788048	50.112	ug/l		96
90) Hexachloroethane	13.959	117	165051	49.714	ug/l		88
91) 1,2-Dichlorobenzene	13.739	146	372673	50.261	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	37843	47.634	ug/l		94
93) 1,2,4-Trichlorobenzene	15.001	180	240959	51.193	ug/l		98
94) Hexachlorobutadiene	15.111	225	132225	51.119	ug/l		98
95) Naphthalene	15.233	128	548206	49.992	ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	212903	50.895	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

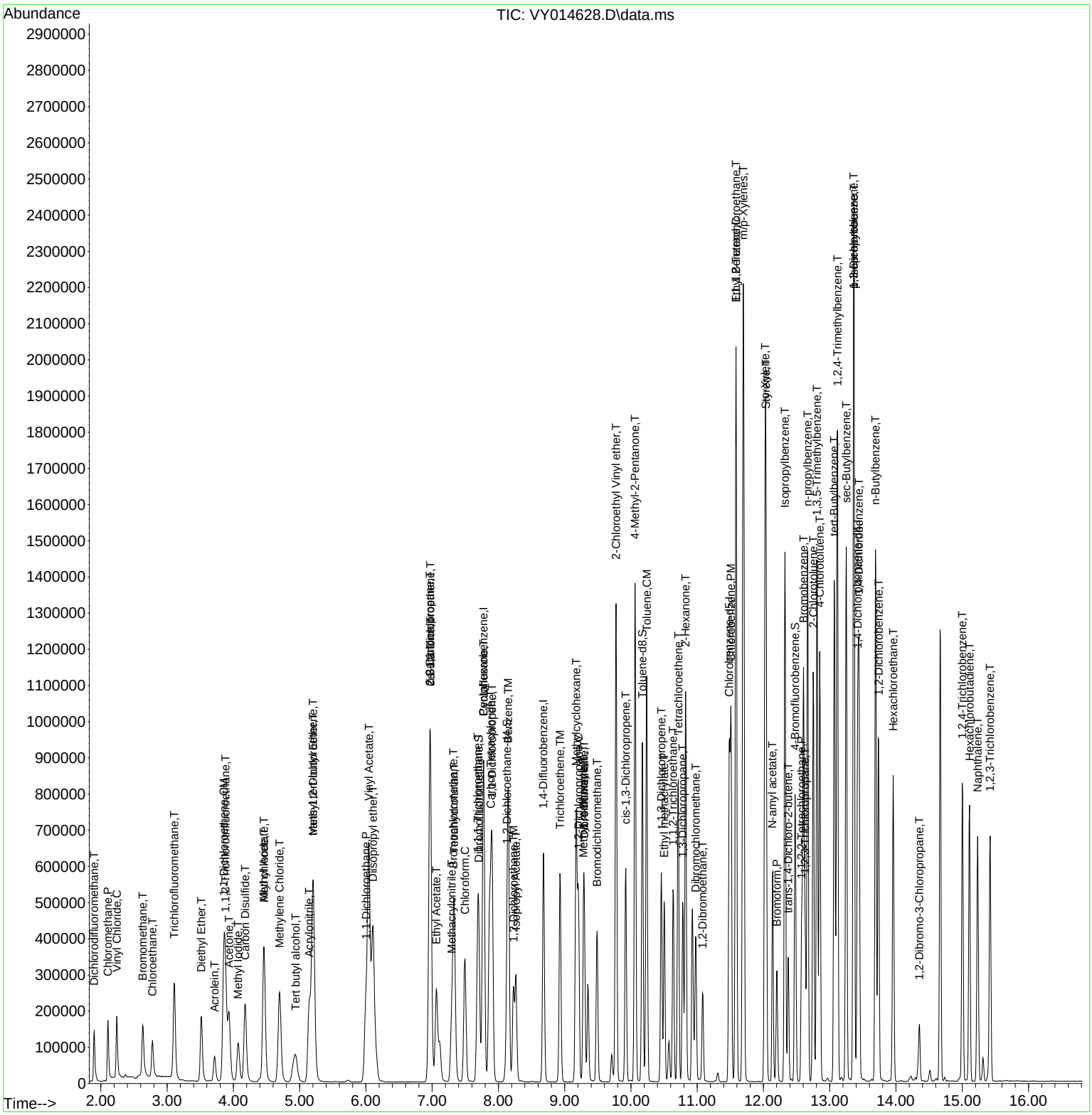
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

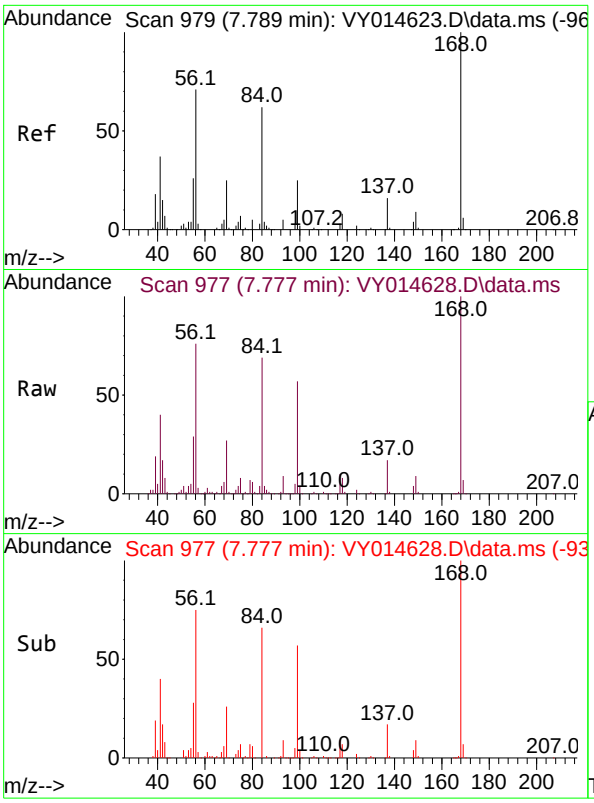
Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

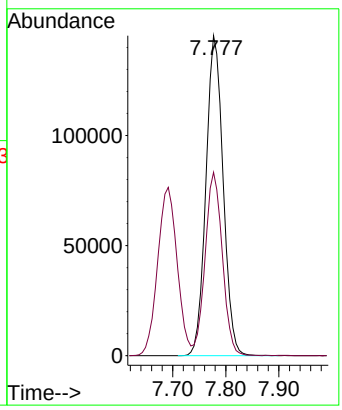




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:168 Resp: 32722

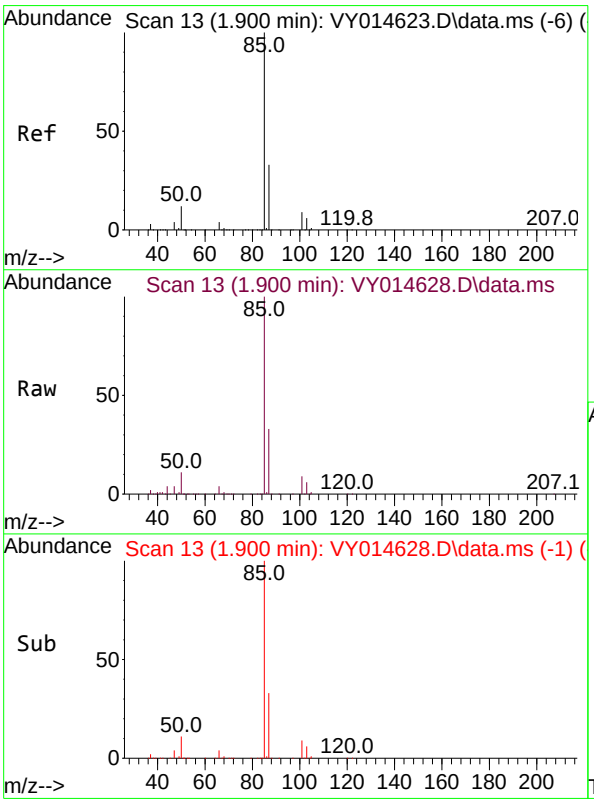
Ion	Ratio	Lower	Upper
168	100		
99	57.2	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

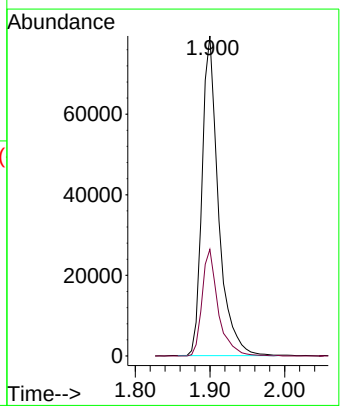
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

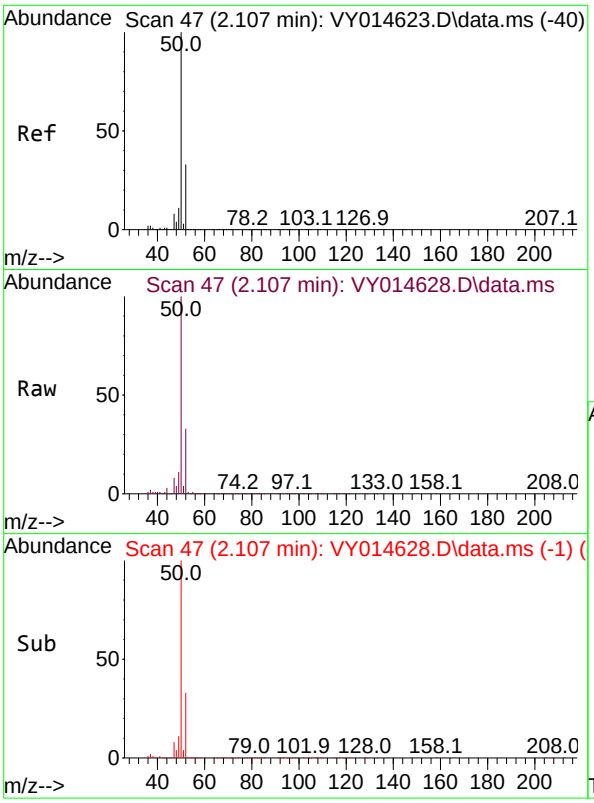


#2
Dichlorodifluoromethane
Concen: 45.380 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 85 Resp: 120981

Ion	Ratio	Lower	Upper
85	100		
87	33.3	15.6	46.8

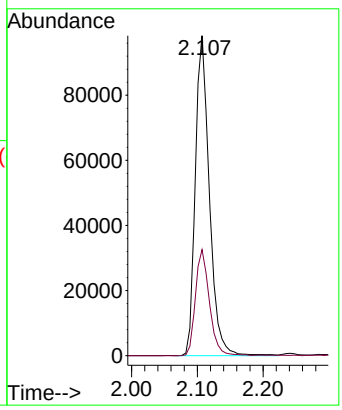




#3
Chloromethane
Concen: 48.556 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 50 Resp: 14551

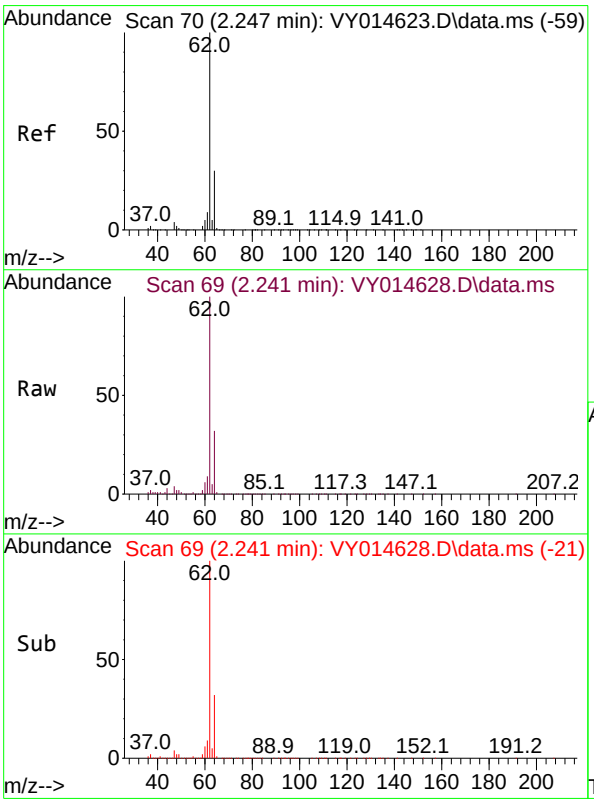
Ion	Ratio	Lower	Upper
50	100		
52	33.2	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

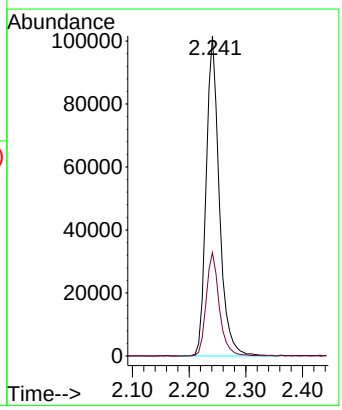
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

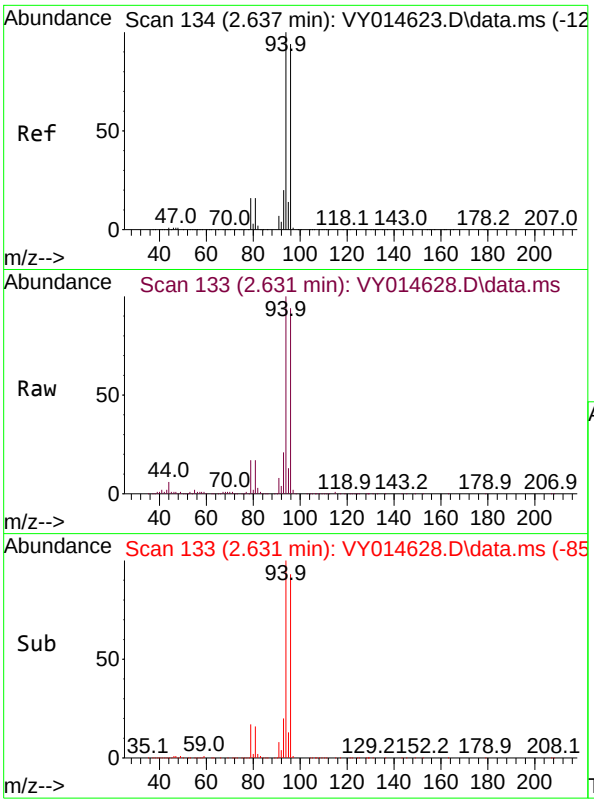


#4
Vinyl Chloride
Concen: 48.793 ug/l
RT: 2.241 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 62 Resp: 163421

Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.3	36.5

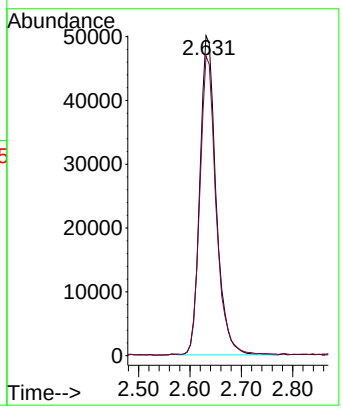




#5
Bromomethane
Concen: 49.264 ug/l
RT: 2.631 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 94 Resp: 10904

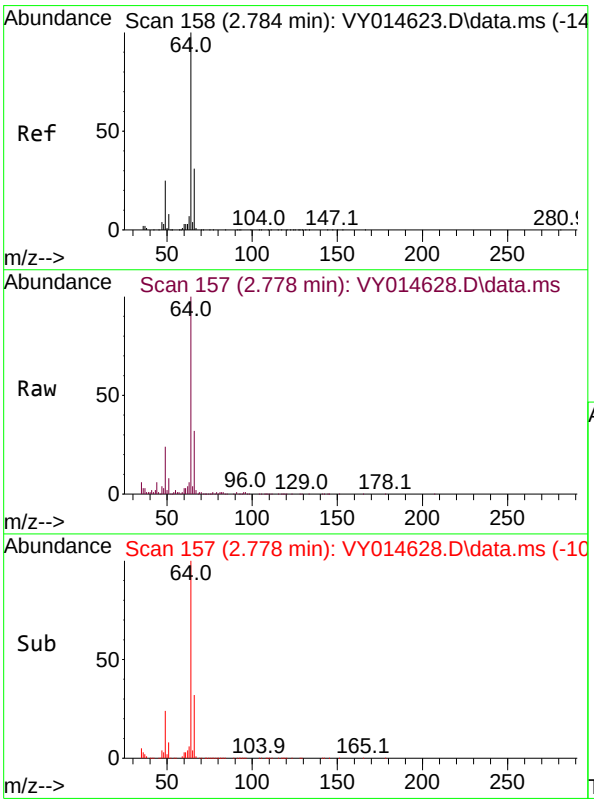
Ion	Ratio	Lower	Upper
94	100		
96	93.4	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

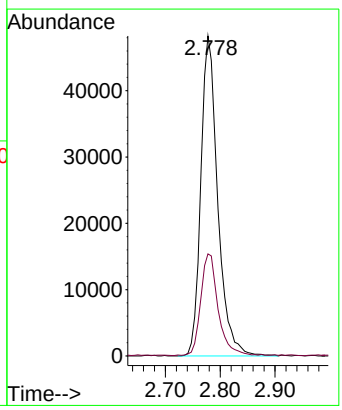
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

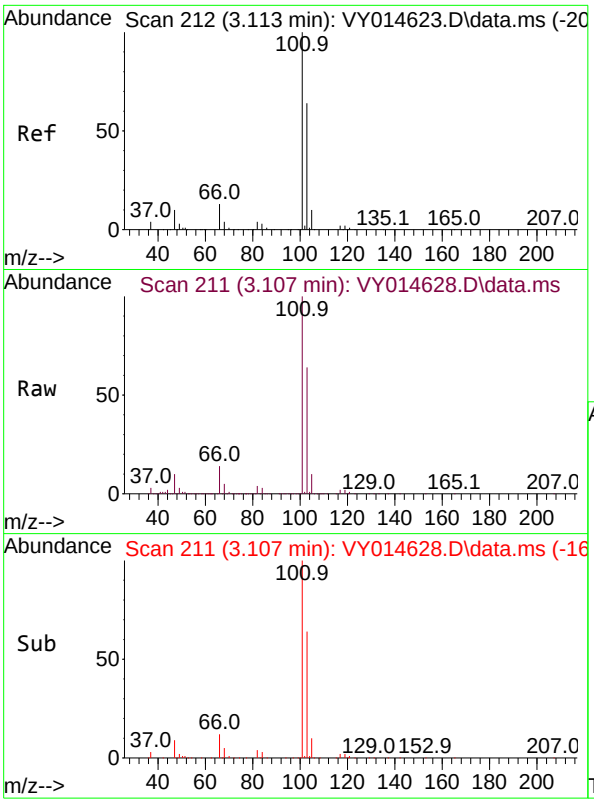


#6
Chloroethane
Concen: 49.285 ug/l
RT: 2.778 min Scan# 157
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 64 Resp: 103108

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.4	36.6

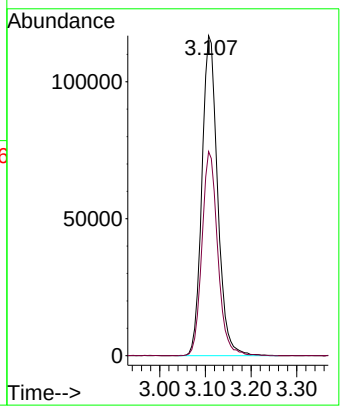




#7
Trichlorofluoromethane
Concen: 49.515 ug/l
RT: 3.107 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:101 Resp: 27852

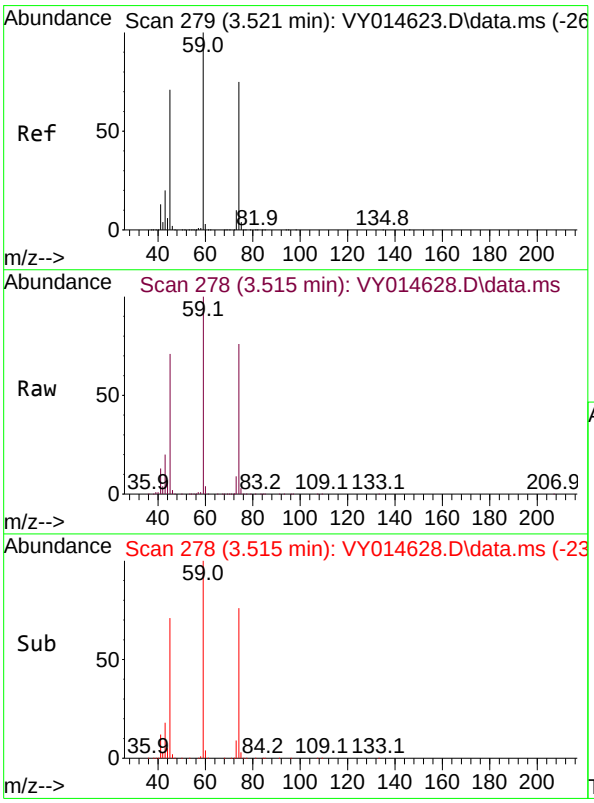
Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

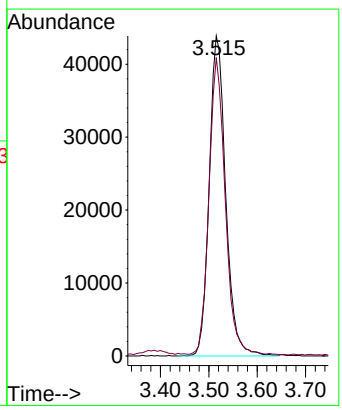
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

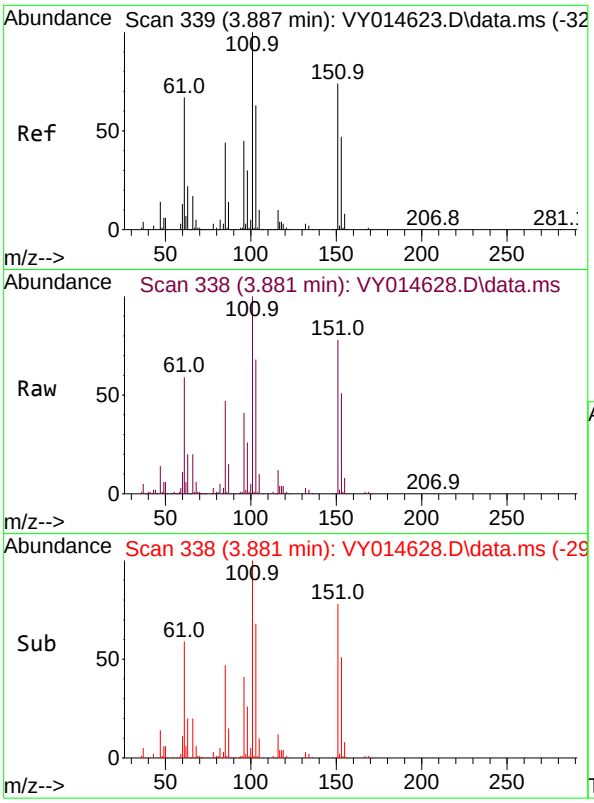


#8
Diethyl Ether
Concen: 49.720 ug/l
RT: 3.515 min Scan# 278
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 74 Resp: 104060

Ion	Ratio	Lower	Upper
74	100		
45	90.6	51.5	154.5

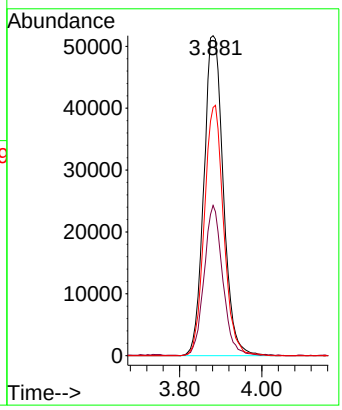




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.311 ug/l
RT: 3.881 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:101 Resp: 17001

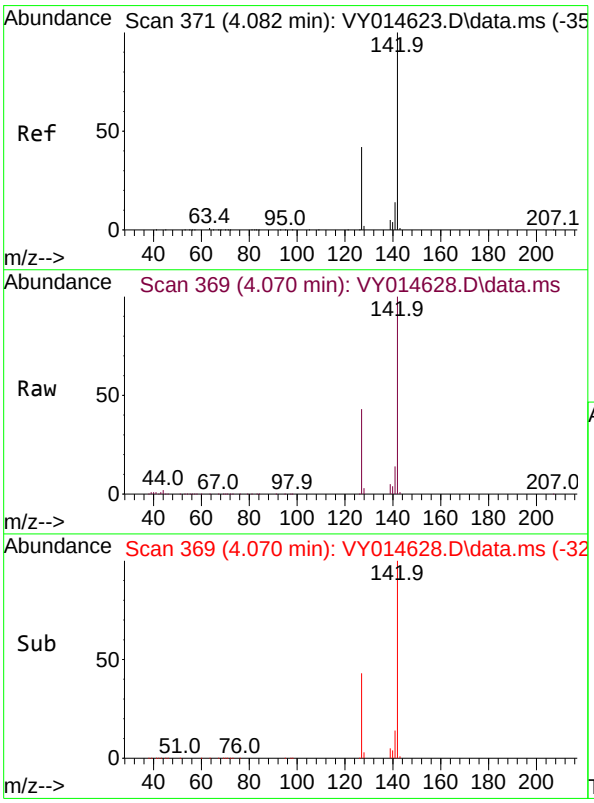
Ion	Ratio	Lower	Upper
101	100		
85	44.8	36.6	55.0
151	77.5	67.0	100.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

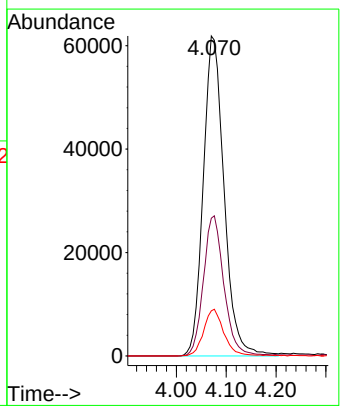
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

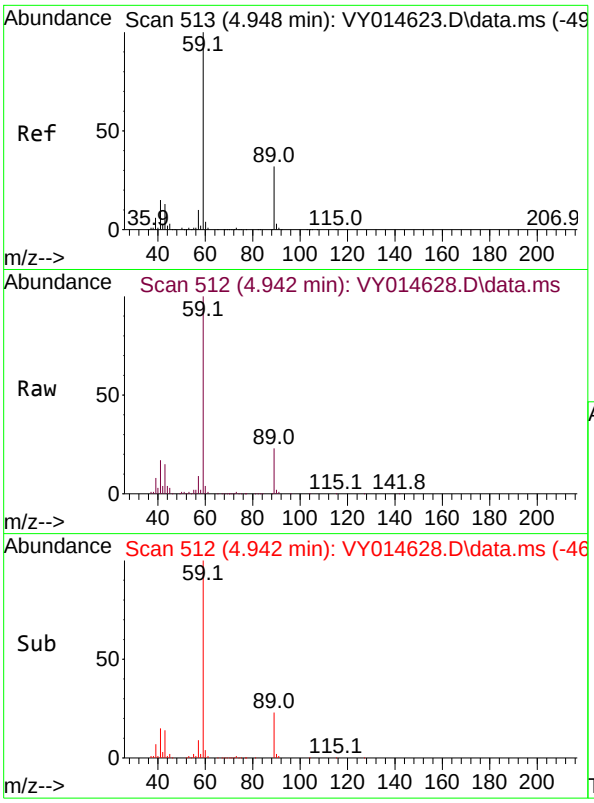


#10
Methyl Iodide
Concen: 49.175 ug/l
RT: 4.070 min Scan# 369
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:142 Resp: 179581

Ion	Ratio	Lower	Upper
142	100		
127	43.5	37.6	56.4
141	14.2	11.8	17.8





#11
Tert butyl alcohol
Concen: 209.229 ug/l
RT: 4.942 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

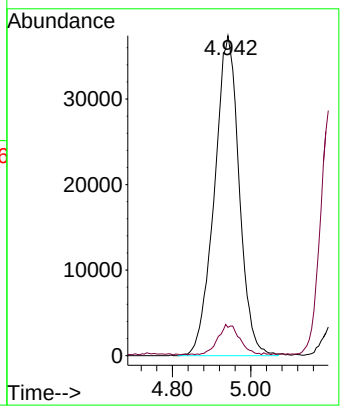
Tgt Ion: 59 Resp: 16452

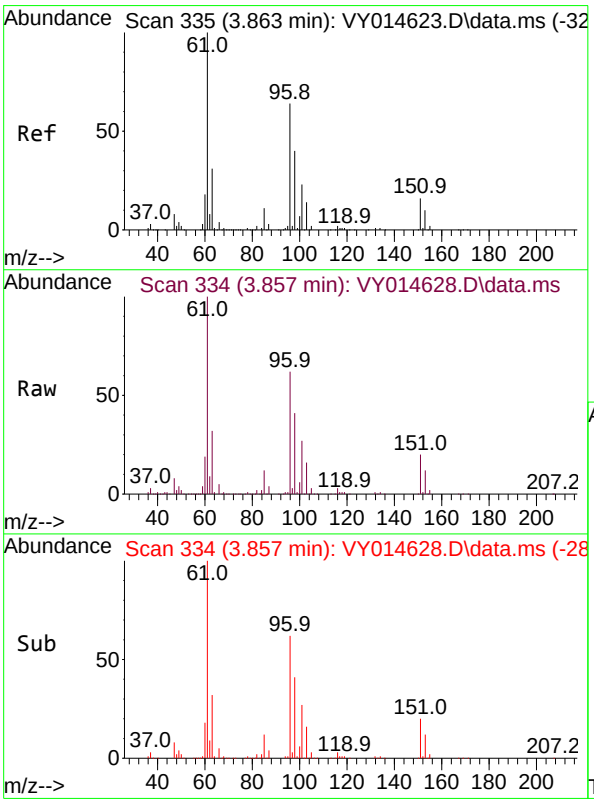
Ion	Ratio	Lower	Upper
59	100		
57	8.1	3.0	4.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

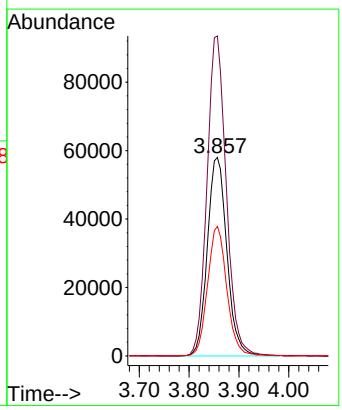


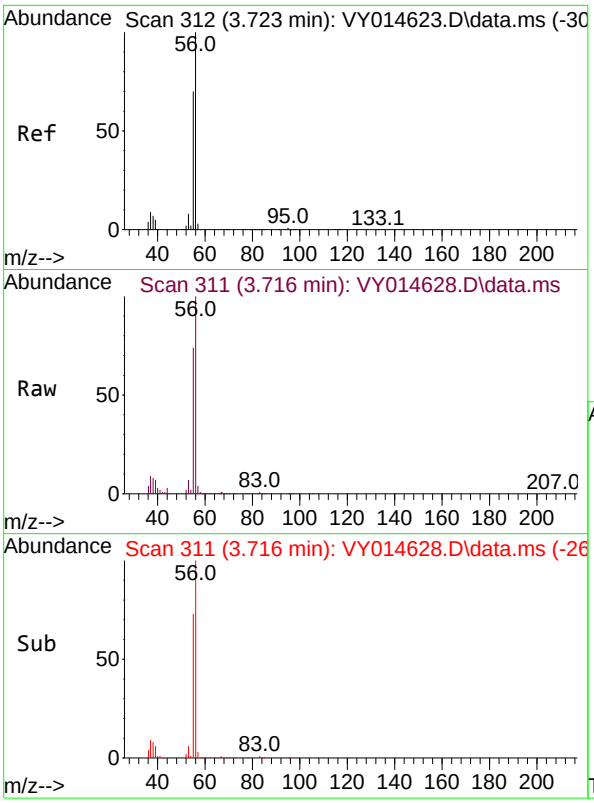


#12
1,1-Dichloroethene
Concen: 49.151 ug/l
RT: 3.857 min Scan# 334
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 96 Resp: 158384

Ion	Ratio	Lower	Upper
96	100		
61	161.2	136.4	204.6
98	65.2	49.4	74.2

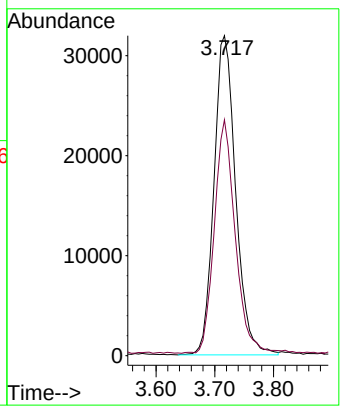




#13
Acrolein
Concen: 210.259 ug/l
RT: 3.716 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 56 Resp: 8194

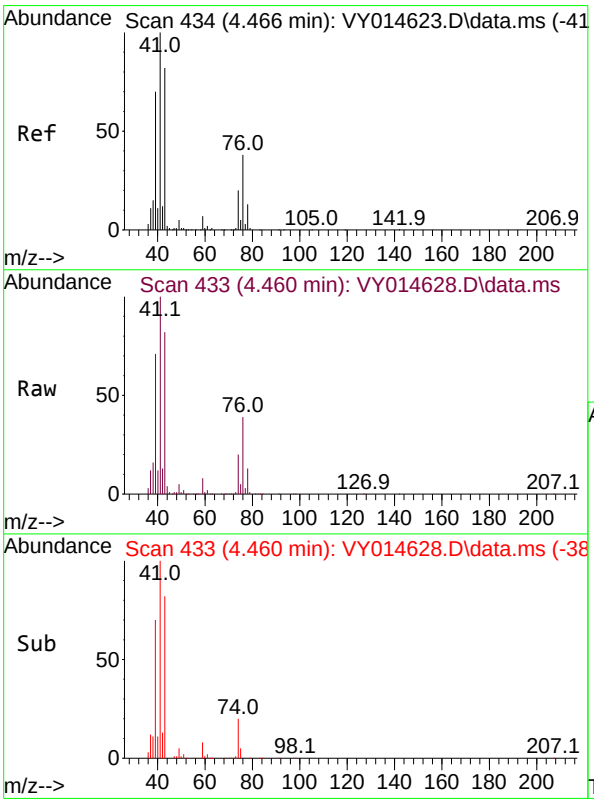
Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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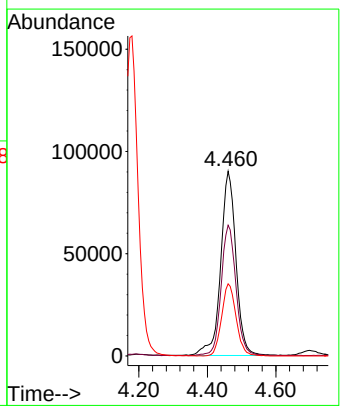
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

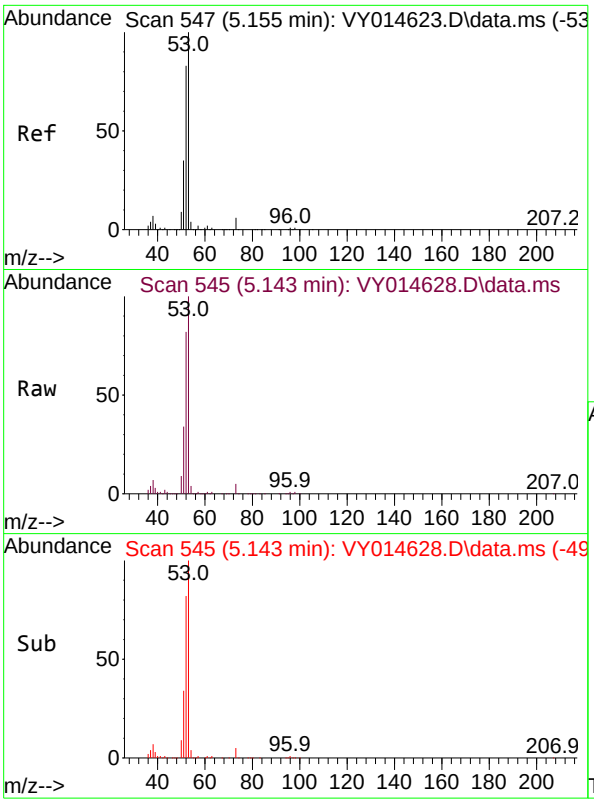


#14
Allyl chloride
Concen: 48.542 ug/l
RT: 4.460 min Scan# 433
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 41 Resp: 277735

Ion	Ratio	Lower	Upper
41	100		
39	68.8	58.0	87.0
76	37.2	27.4	41.2

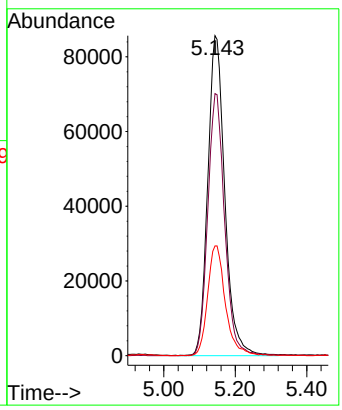




#15
Acrylonitrile
Concen: 245.842 ug/l
RT: 5.143 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 53 Resp: 28373

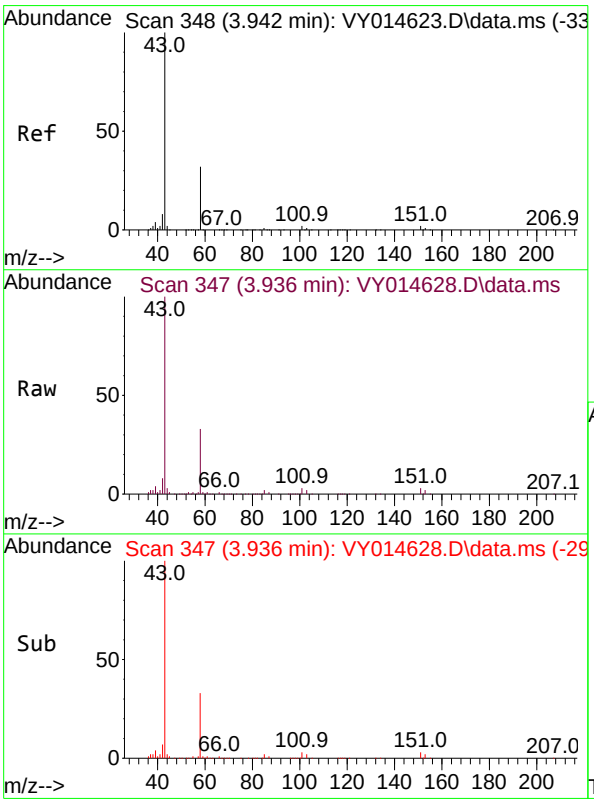
Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.9	100.3
51	35.8	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

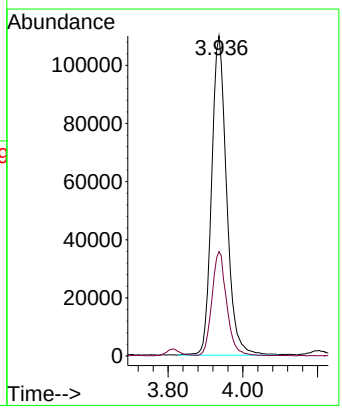
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

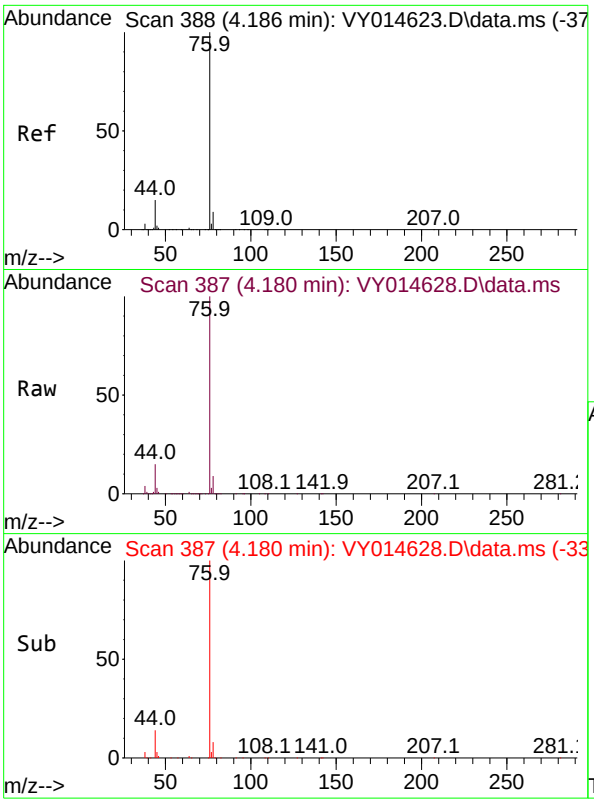


#16
Acetone
Concen: 258.614 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 305589

Ion	Ratio	Lower	Upper
43	100		
58	32.5	22.7	34.1

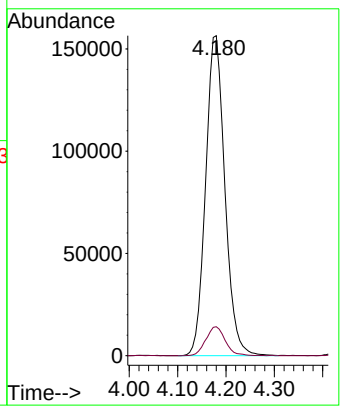




#17
Carbon Disulfide
Concen: 46.946 ug/l
RT: 4.180 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 76 Resp: 43310

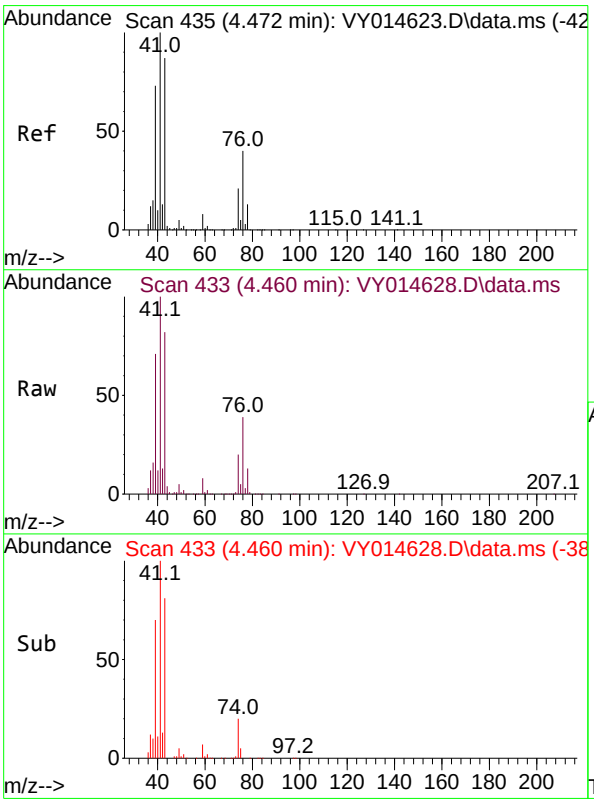
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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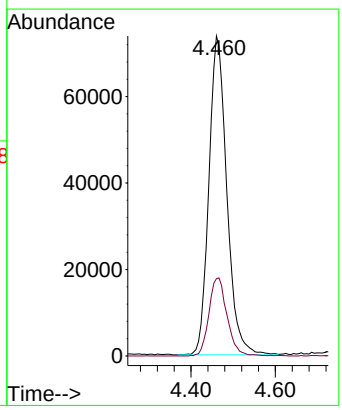
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

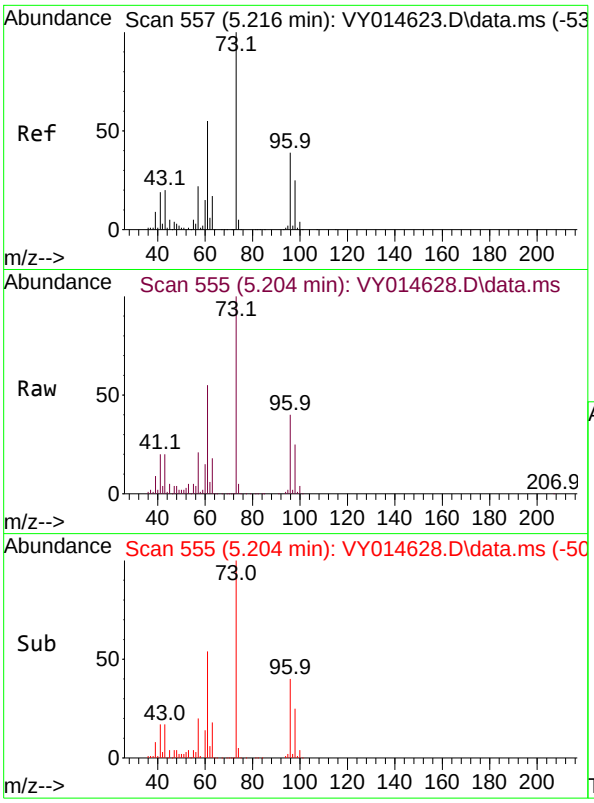


#18
Methyl Acetate
Concen: 48.037 ug/l
RT: 4.460 min Scan# 433
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 217828

Ion	Ratio	Lower	Upper
43	100		
74	24.8	17.4	26.0

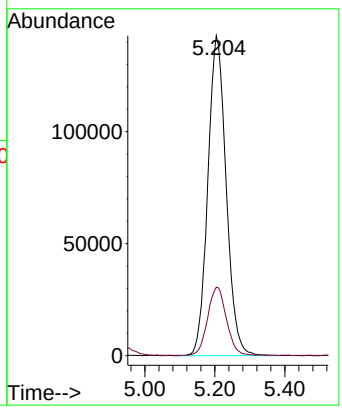




#19
Methyl tert-butyl Ether
Concen: 49.627 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 73 Resp: 51947

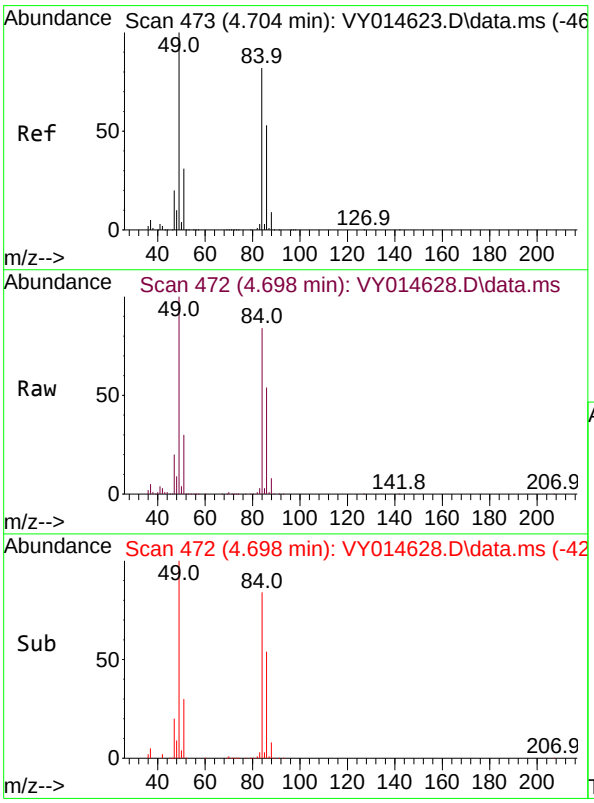
Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

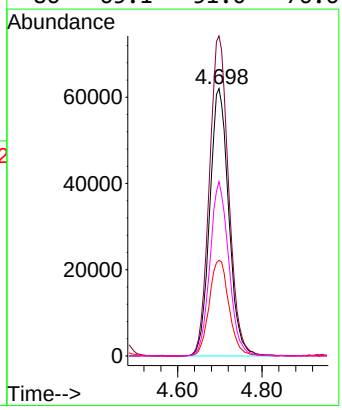
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

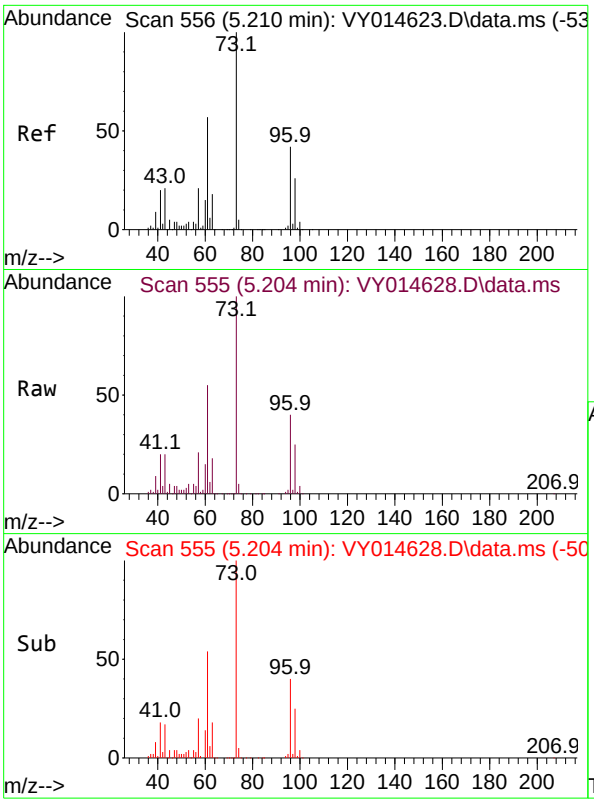


#20
Methylene Chloride
Concen: 50.710 ug/l
RT: 4.698 min Scan# 472
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 84 Resp: 194430

Ion	Ratio	Lower	Upper
84	100		
49	119.7	106.9	160.3
51	35.8	33.2	49.8
86	65.1	51.0	76.6

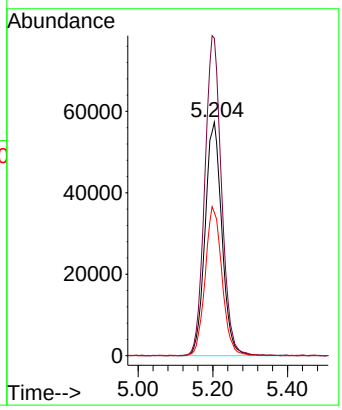




#21
trans-1,2-Dichloroethene
Concen: 48.873 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 96 Resp: 17872

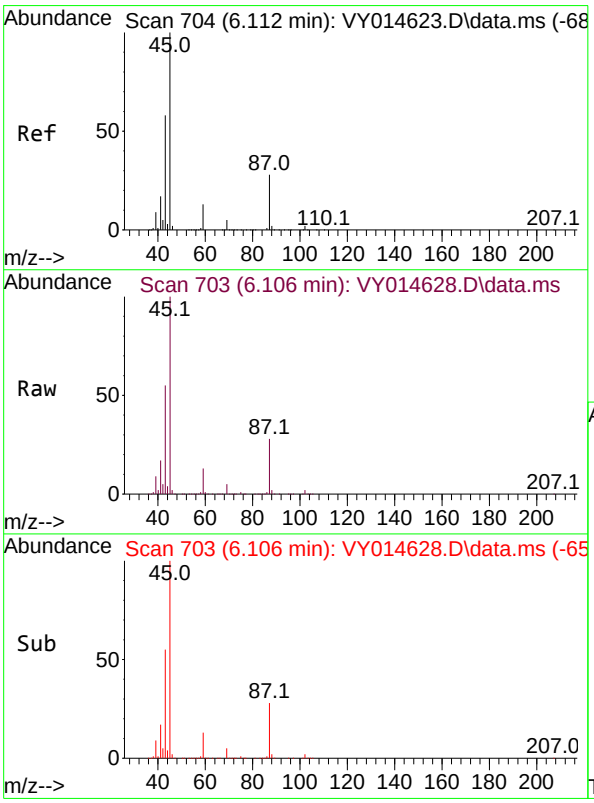
Ion	Ratio	Lower	Upper
96	100		
61	135.8	110.2	165.4
98	61.3	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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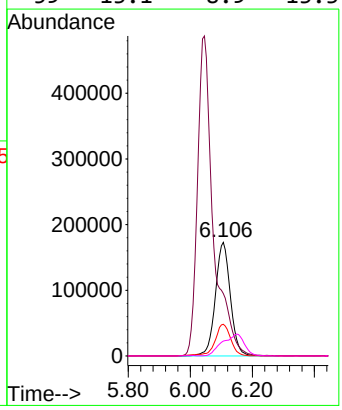
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

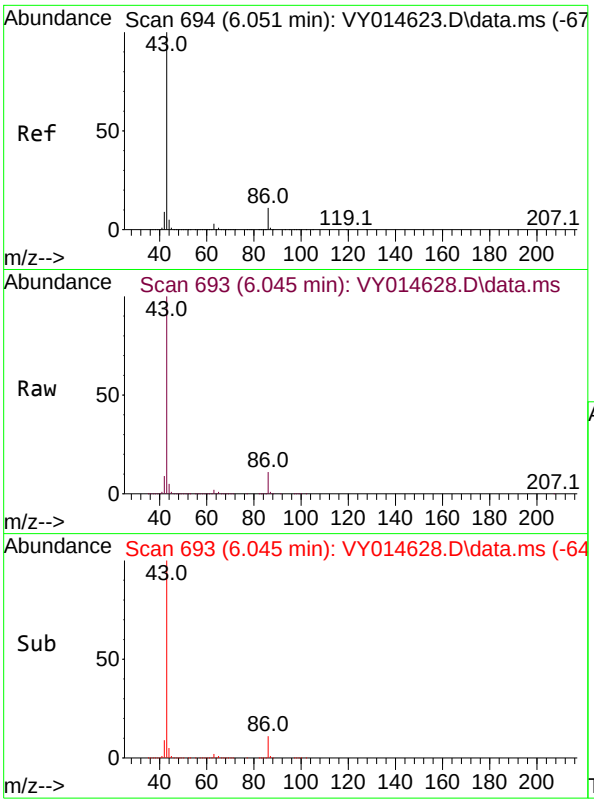


#22
Diisopropyl ether
Concen: 49.716 ug/l
RT: 6.106 min Scan# 703
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 45 Resp: 578311

Ion	Ratio	Lower	Upper
45	100		
43	54.8	52.2	78.4
87	27.9	21.0	31.6
59	13.1	8.9	13.3

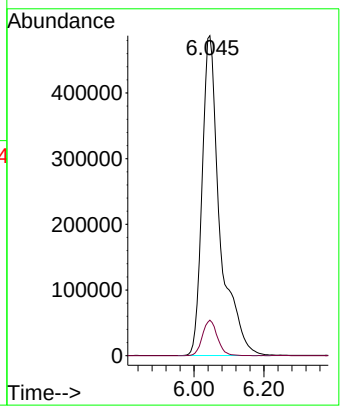




#23
Vinyl Acetate
Concen: 247.218 ug/l
RT: 6.045 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 172091

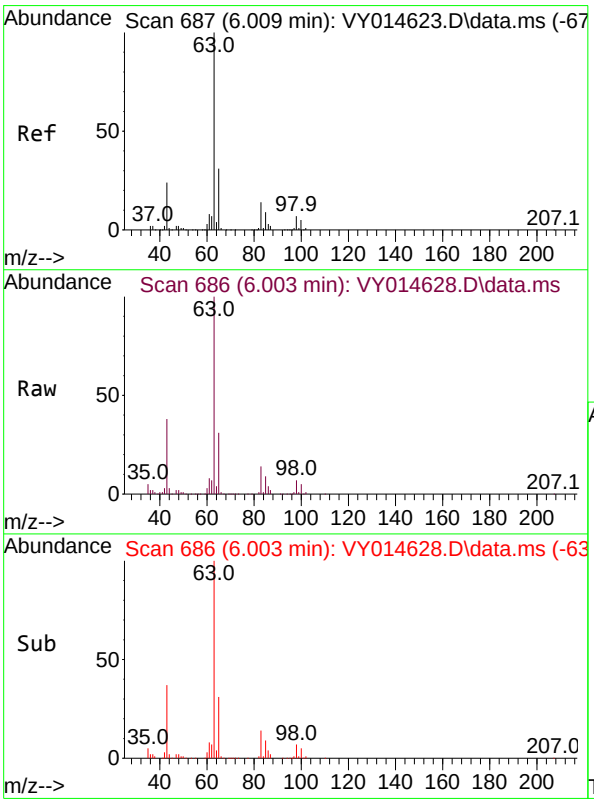
Ion	Ratio	Lower	Upper
43	100		
86	11.1	7.5	11.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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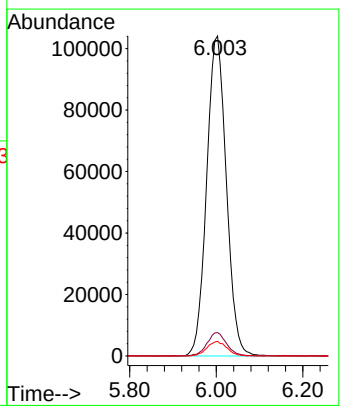
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

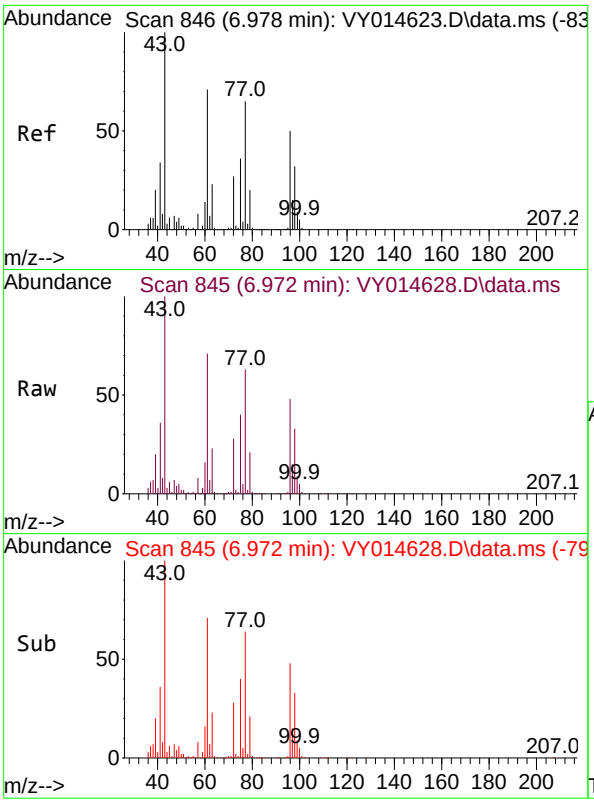


#24
1,1-Dichloroethane
Concen: 49.375 ug/l
RT: 6.003 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 63 Resp: 328632

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.1	9.4
100	4.6	1.8	5.5





#25
2-Butanone
Concen: 244.246 ug/l
RT: 6.972 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

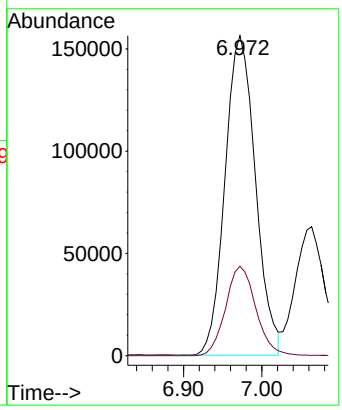
Tgt Ion: 43 Resp: 42223

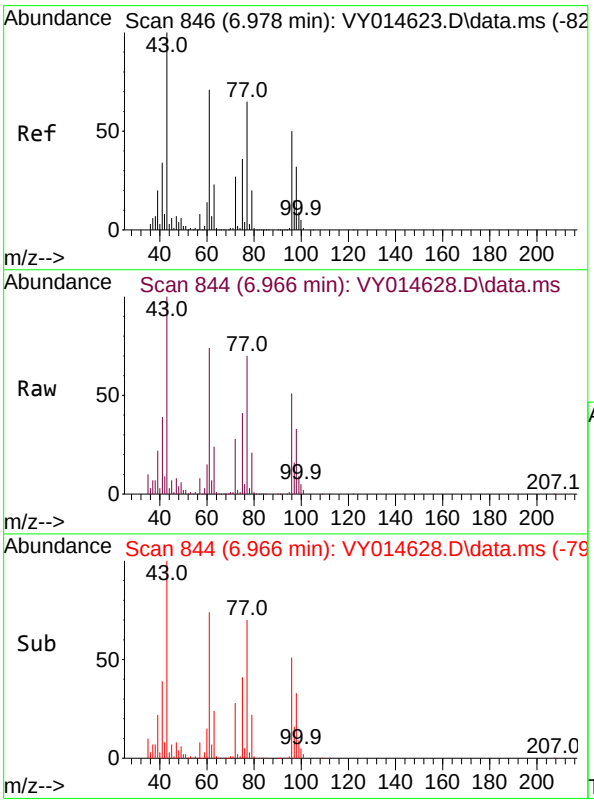
Ion	Ratio	Lower	Upper
43	100		
72	28.0	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

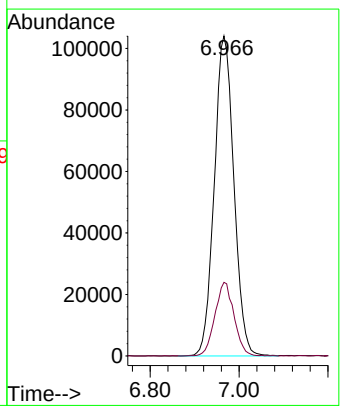


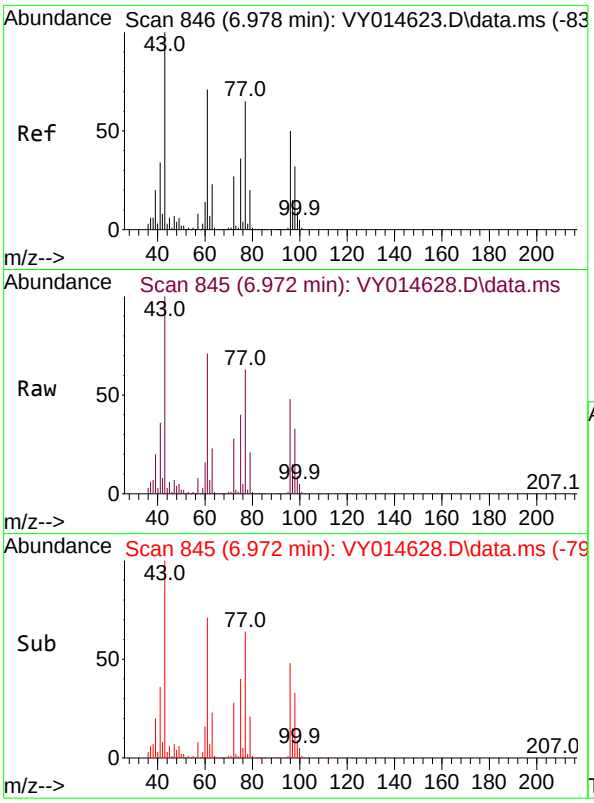


#26
2,2-Dichloropropane
Concen: 50.124 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 77 Resp: 317958

Ion	Ratio	Lower	Upper
77	100		
97	22.4	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 49.595 ug/l
RT: 6.972 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

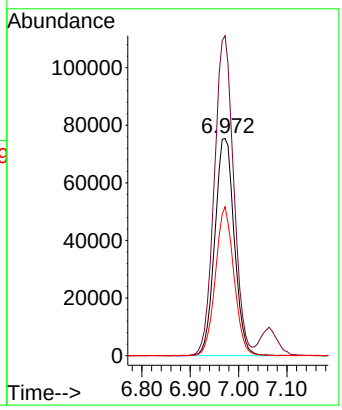
Tgt Ion: 96 Resp: 21110

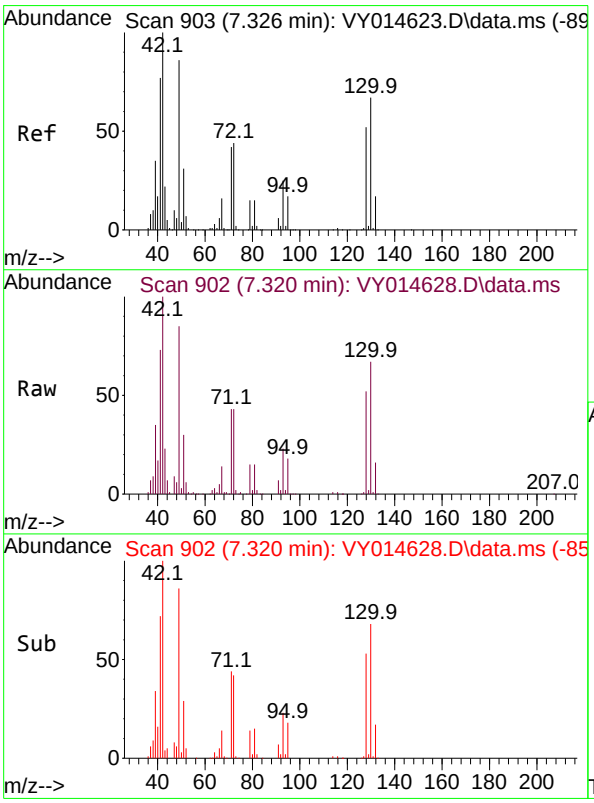
Ion	Ratio	Lower	Upper
96	100		
61	146.6	0.0	301.4
98	65.1	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

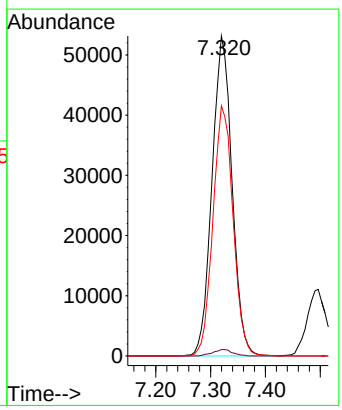


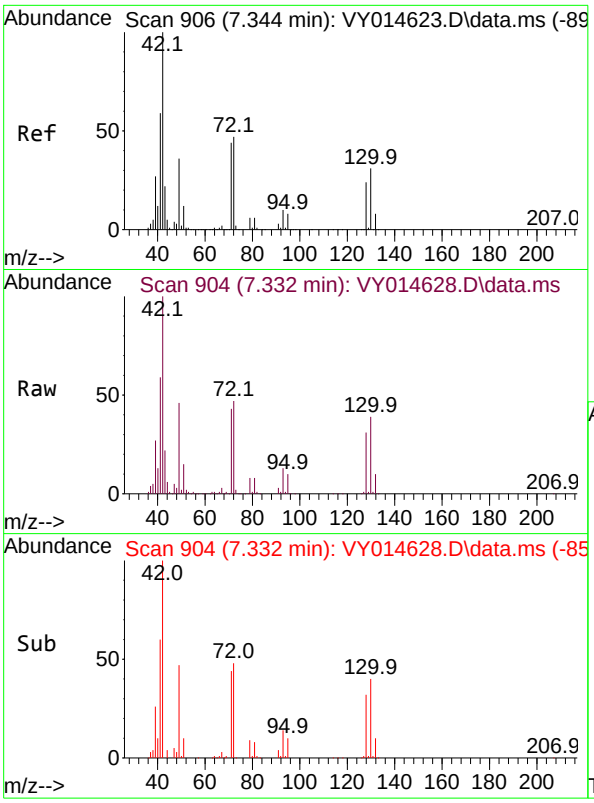


#28
Bromochloromethane
Concen: 47.012 ug/l
RT: 7.320 min Scan# 902
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 49 Resp: 134763

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.6
130	78.7	60.7	91.1

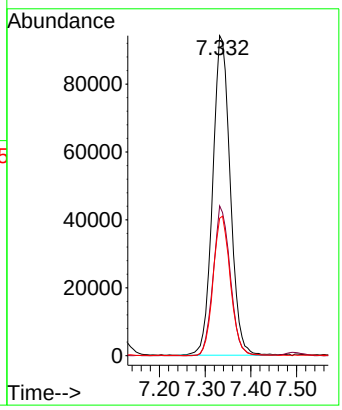




#29
Tetrahydrofuran
Concen: 236.286 ug/l
RT: 7.332 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 42 Resp: 25152

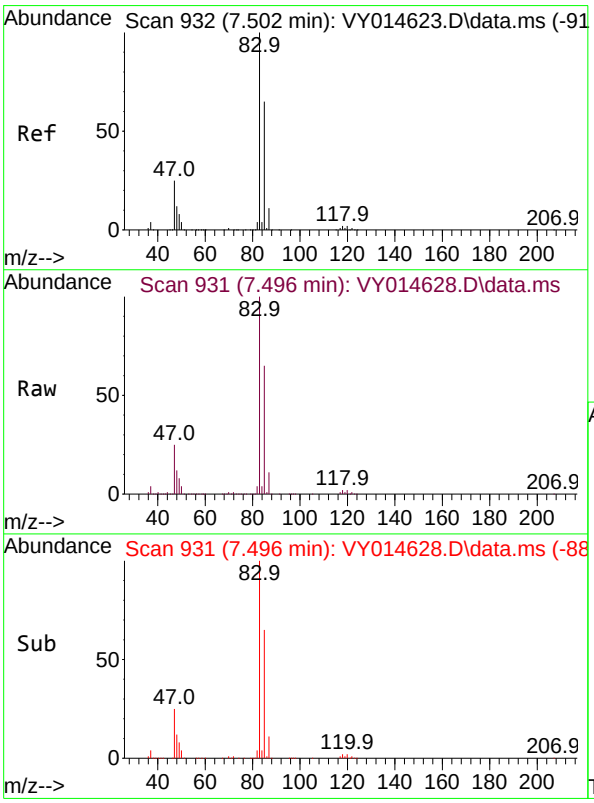
Ion	Ratio	Lower	Upper
42	100		
72	45.3	32.8	49.2
71	43.2	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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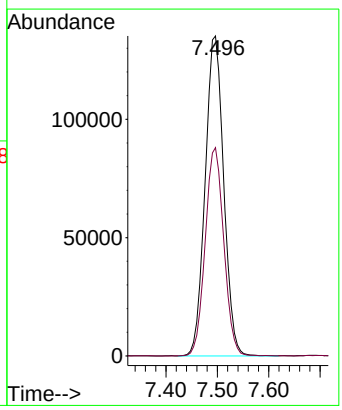
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

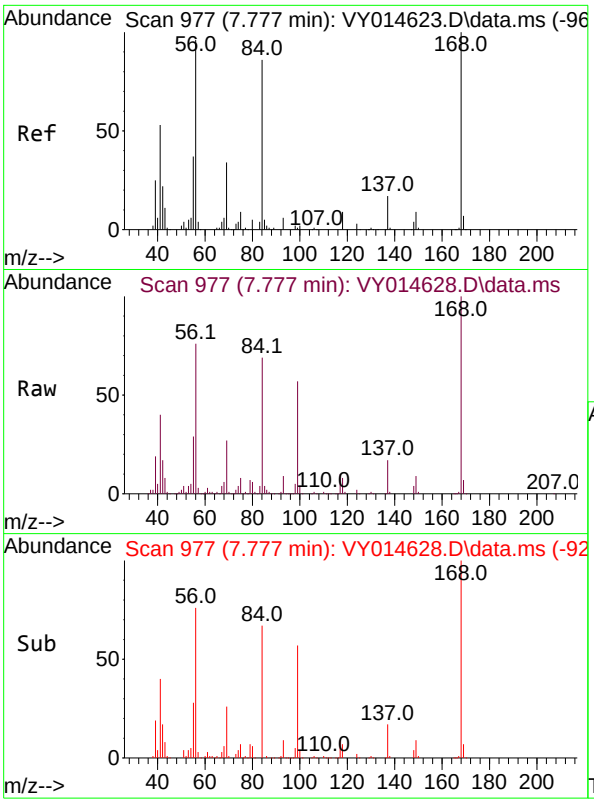


#30
Chloroform
Concen: 49.446 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 83 Resp: 339372

Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.7	74.5





#31
Cyclohexane
Concen: 46.126 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

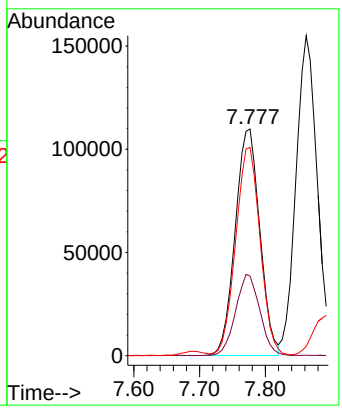
Tgt Ion: 56 Resp: 28551

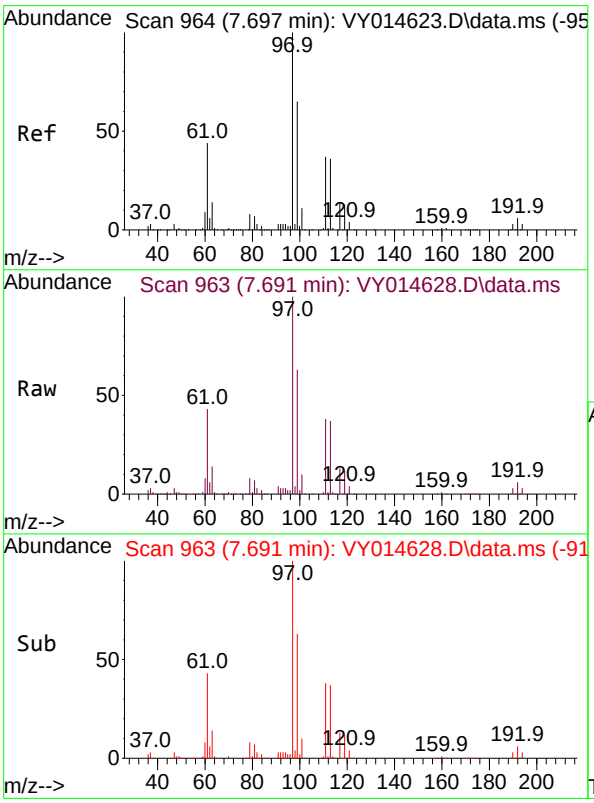
Ion	Ratio	Lower	Upper
56	100		
69	35.0	27.8	41.6
84	91.3	66.4	99.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

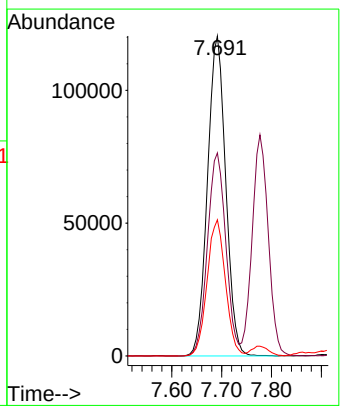


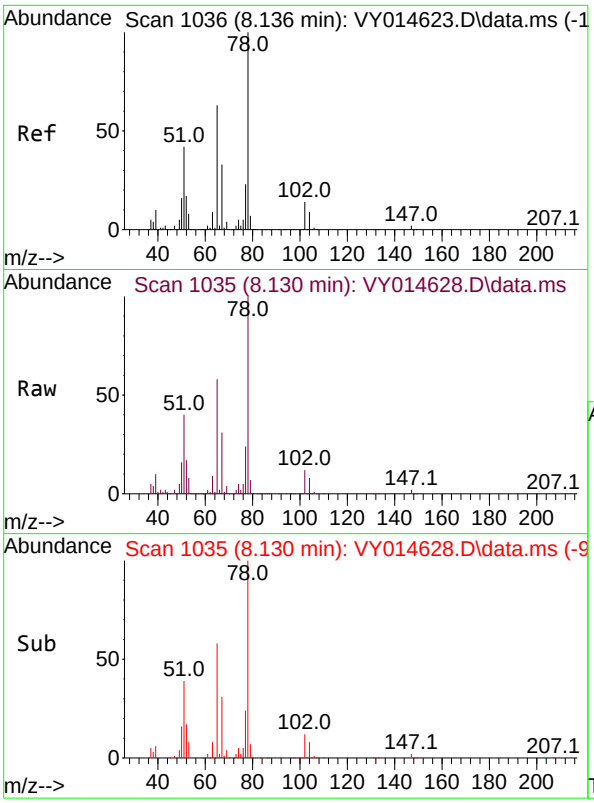


#32
1,1,1-Trichloroethane
Concen: 49.612 ug/l
RT: 7.691 min Scan# 963
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 97 Resp: 306465

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.8	76.2
61	42.8	35.1	52.7

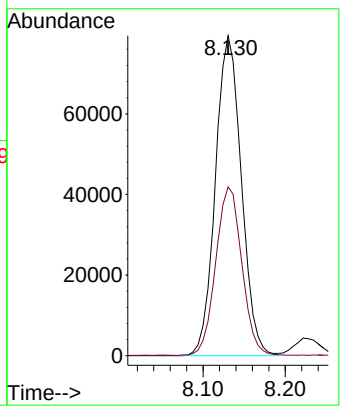




#33
1,2-Dichloroethane-d4
Concen: 46.669 ug/l
RT: 8.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 65 Resp: 17402

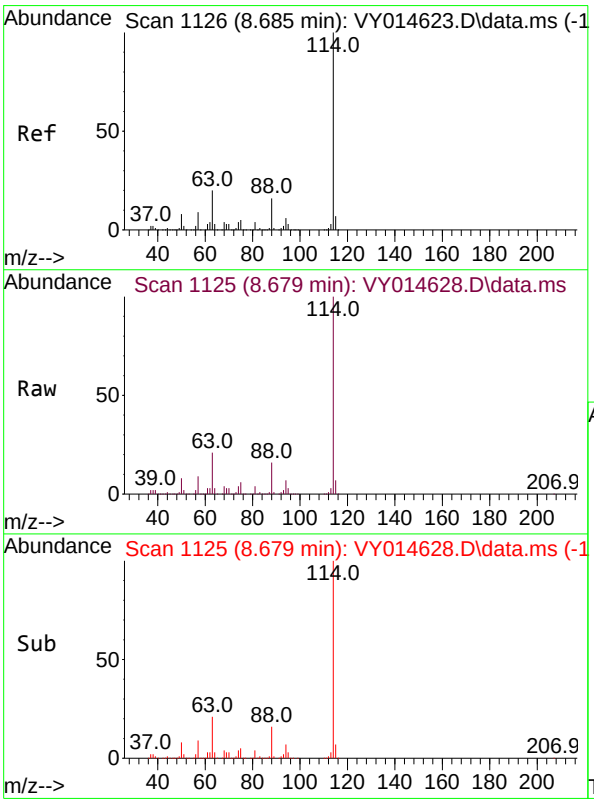
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

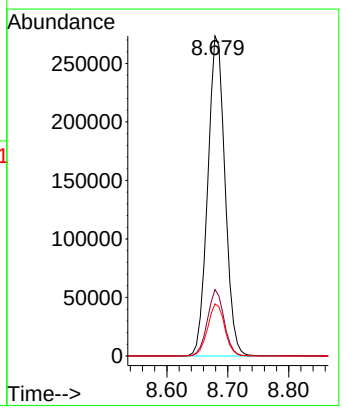
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

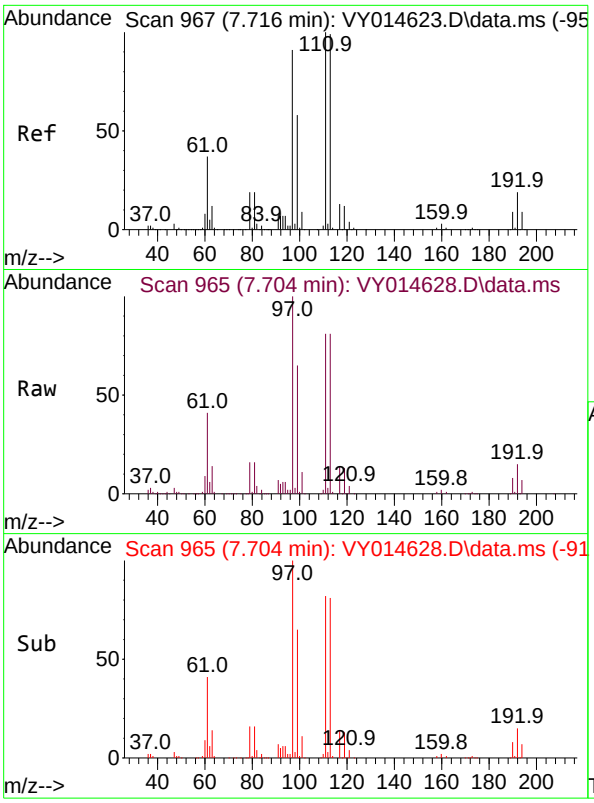


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.679 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:114 Resp: 536980

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	16.3	0.0	30.6

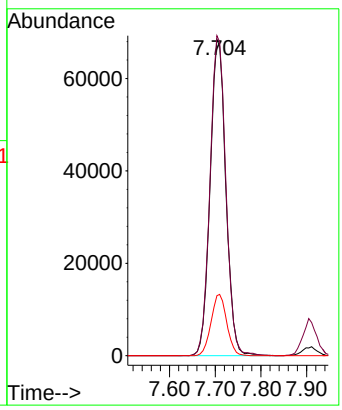




#35
Dibromofluoromethane
Concen: 47.811 ug/l
RT: 7.704 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:113 Resp: 16343

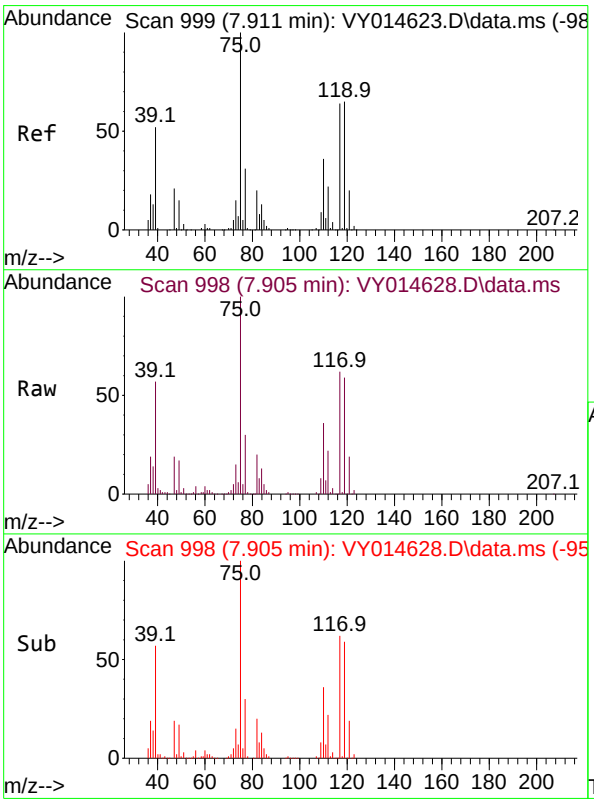
Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.3	121.9
192	19.3	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

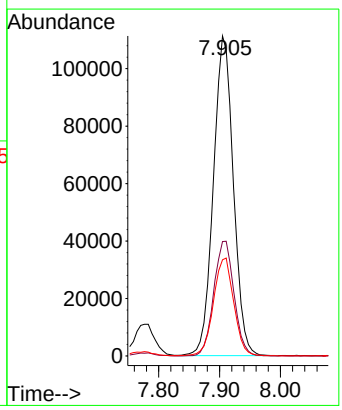
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

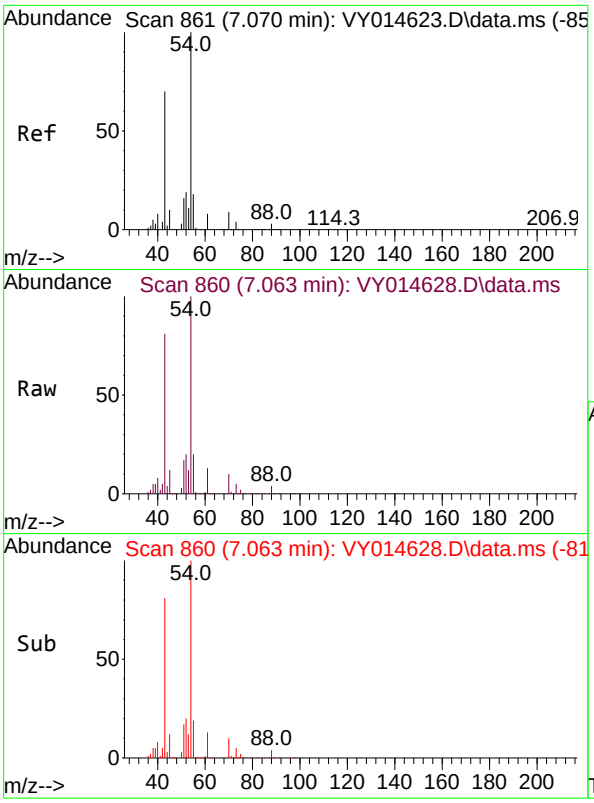


#36
1,1-Dichloropropene
Concen: 49.538 ug/l
RT: 7.905 min Scan# 998
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 253236

Ion	Ratio	Lower	Upper
75	100		
110	36.4	17.8	53.5
77	31.1	24.4	36.6





#37
Ethyl Acetate
Concen: 48.288 ug/l
RT: 7.063 min Scan# 8
Delta R.T. -0.007 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

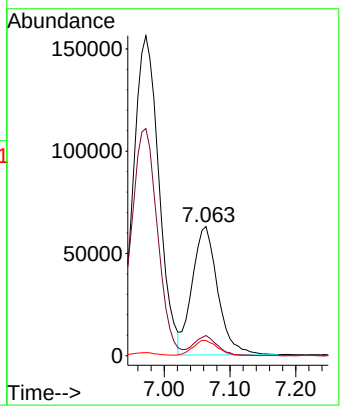
Tgt Ion: 43 Resp: 16995

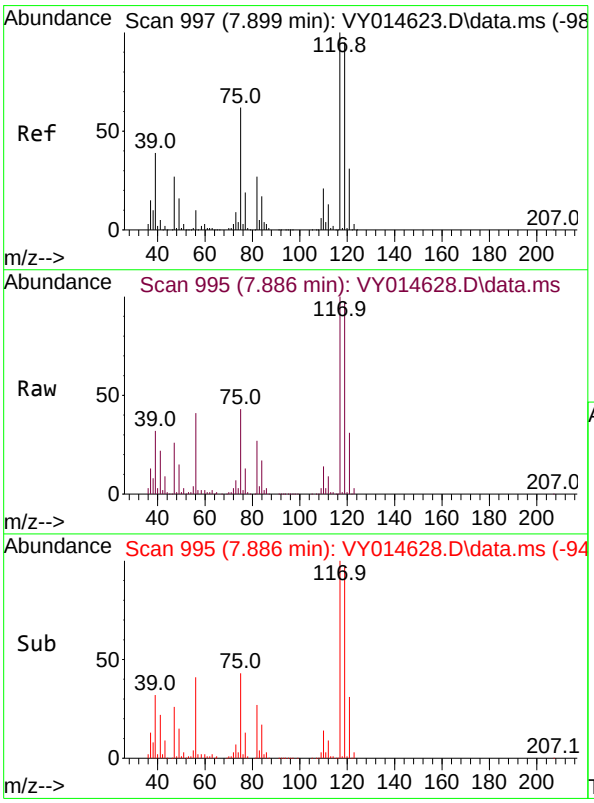
Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.1	15.1
70	11.2	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

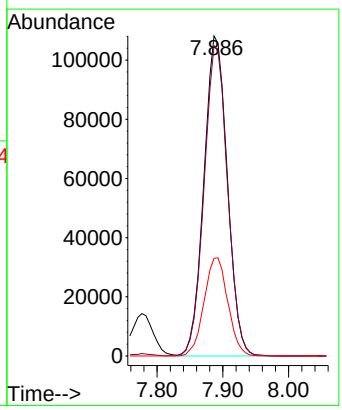


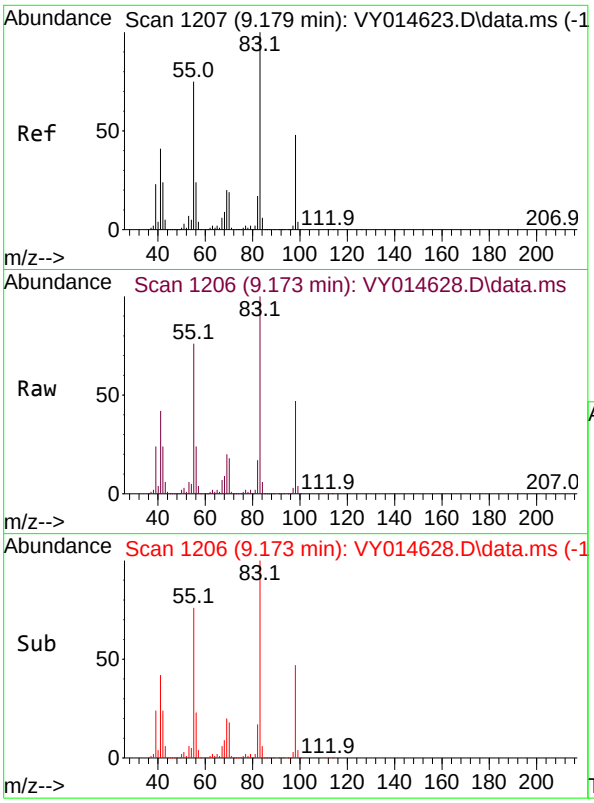


#38
Carbon Tetrachloride
Concen: 49.709 ug/l
RT: 7.886 min Scan# 995
Delta R.T. -0.013 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:117 Resp: 268615

Ion	Ratio	Lower	Upper
117	100		
119	97.0	76.4	114.6
121	30.5	25.8	38.6





#39
Methylcyclohexane
Concen: 48.820 ug/l
RT: 9.173 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

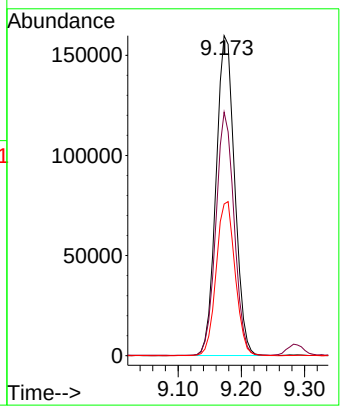
Tgt Ion: 83 Resp: 32513

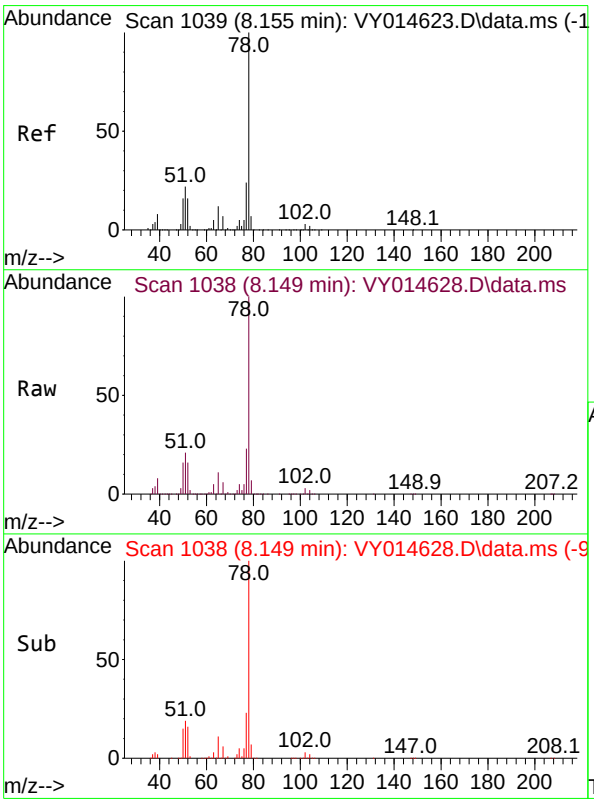
Ion	Ratio	Lower	Upper
83	100		
55	76.0	63.0	94.4
98	47.4	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

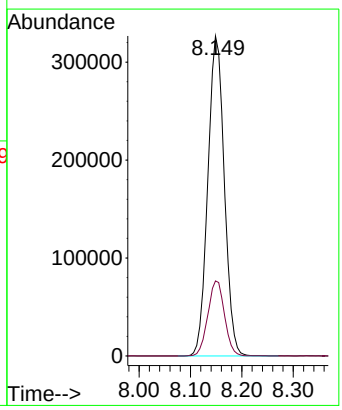


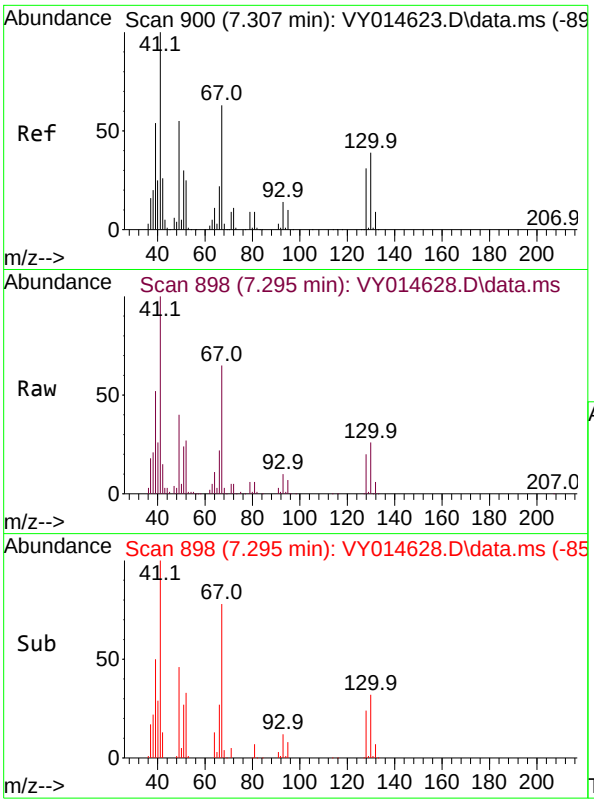


#40
Benzene
Concen: 50.008 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 78 Resp: 727040

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6

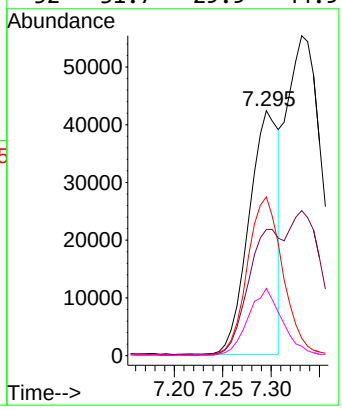




#41
Methacrylonitrile
Concen: 49.489 ug/l
RT: 7.295 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 41 Resp: 8959

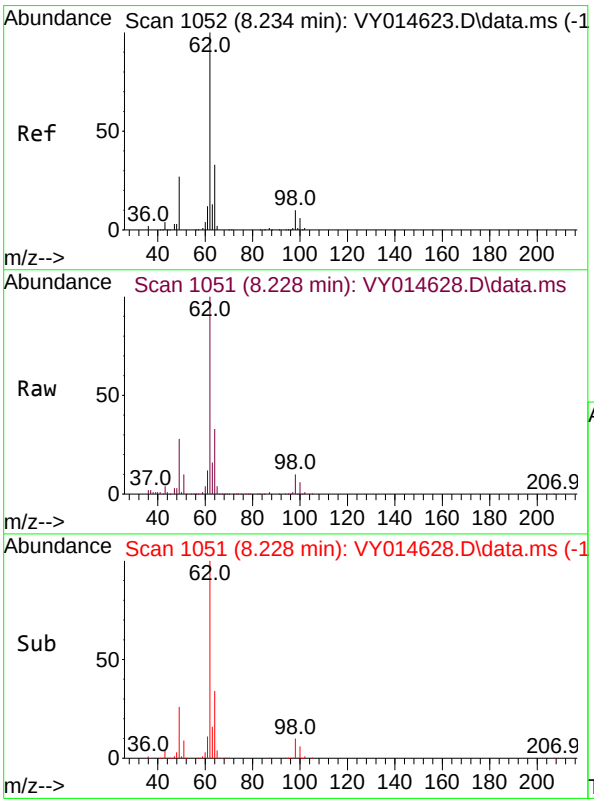
Ion	Ratio	Lower	Upper
41	100		
39	61.4	52.1	78.1
67	79.0	66.2	99.2
52	31.7	29.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

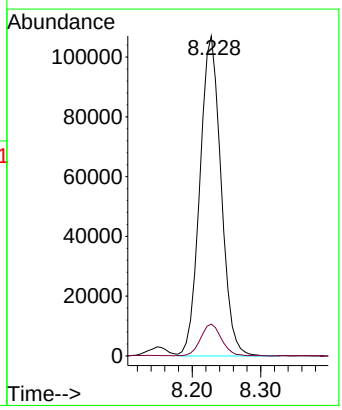
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

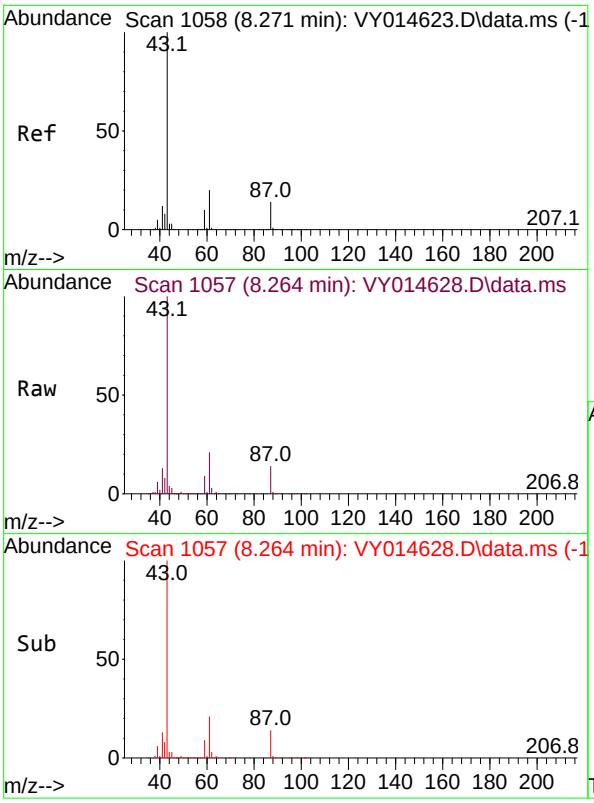


#42
1,2-Dichloroethane
Concen: 50.028 ug/l
RT: 8.228 min Scan# 1051
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 62 Resp: 230330

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	15.8





#43
Isopropyl Acetate
Concen: 48.784 ug/l
RT: 8.264 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

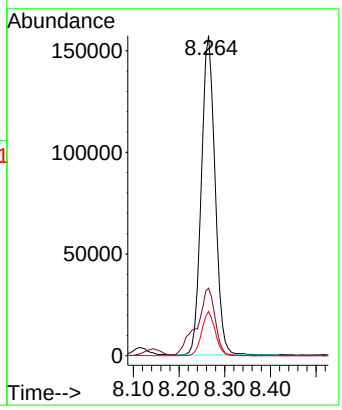
Tgt Ion: 43 Resp: 32706

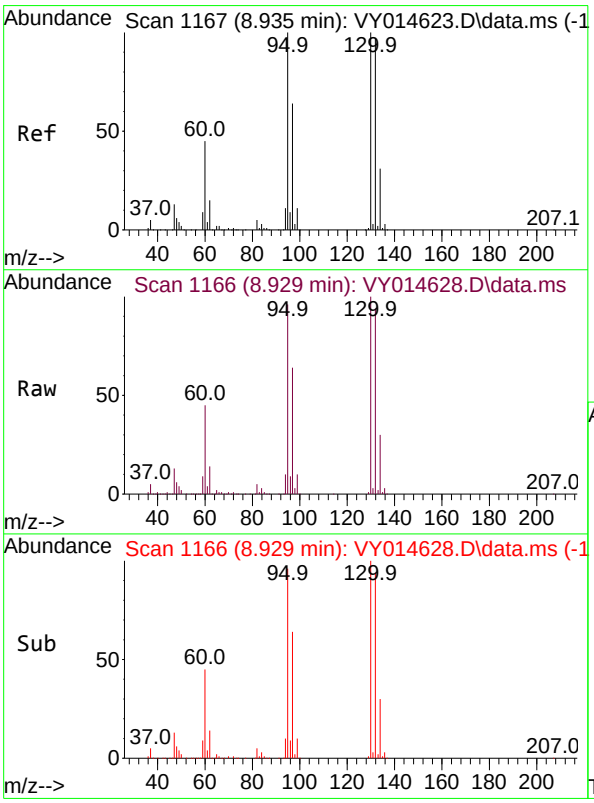
Ion	Ratio	Lower	Upper
43	100		
61	28.4	21.1	31.7
87	13.7	9.8	14.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

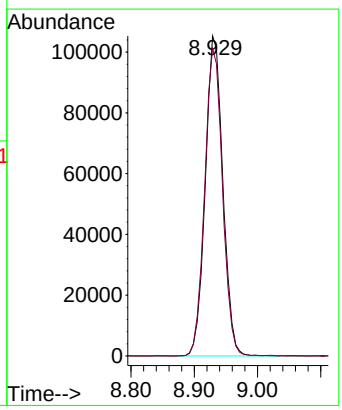


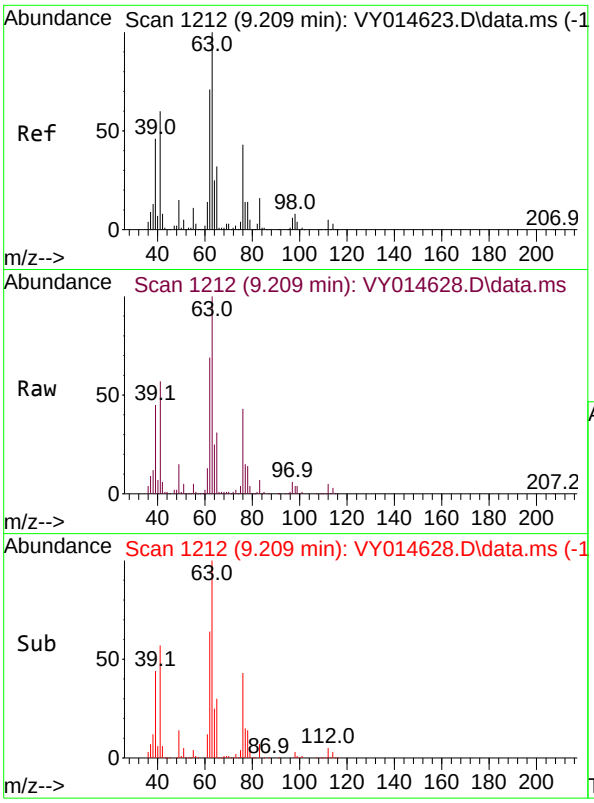


#44
Trichloroethene
Concen: 50.018 ug/l
RT: 8.929 min Scan# 1166
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:130 Resp: 203462

Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	196.0

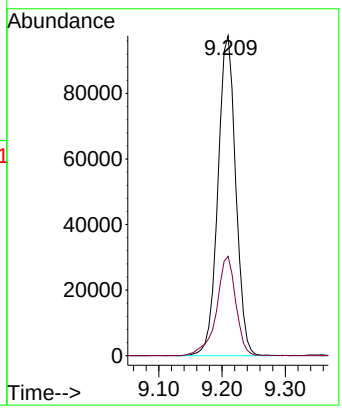




#45
1,2-Dichloropropane
Concen: 50.134 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 63 Resp: 19032

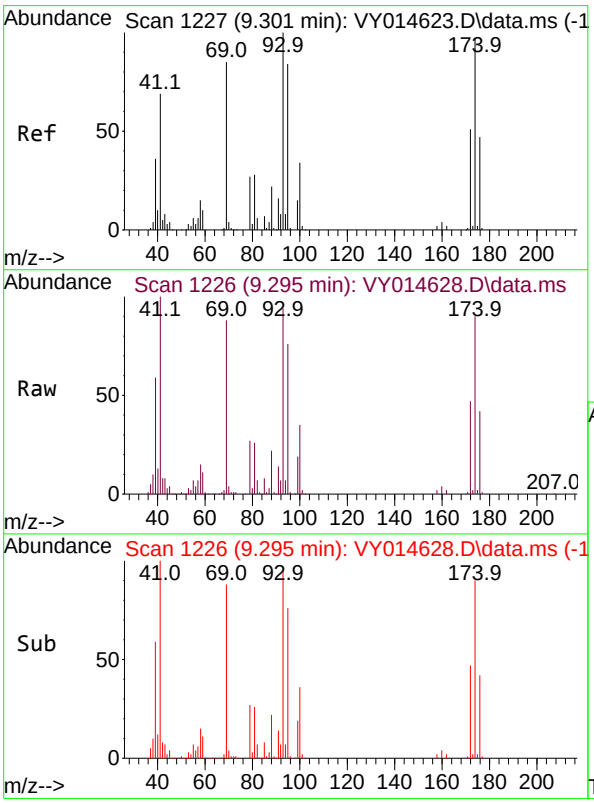
Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

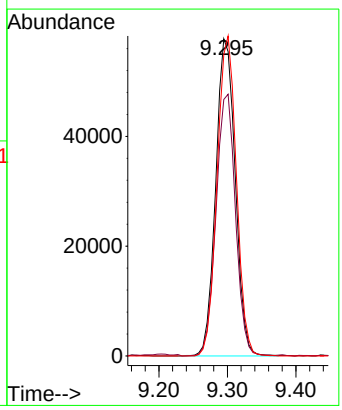
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

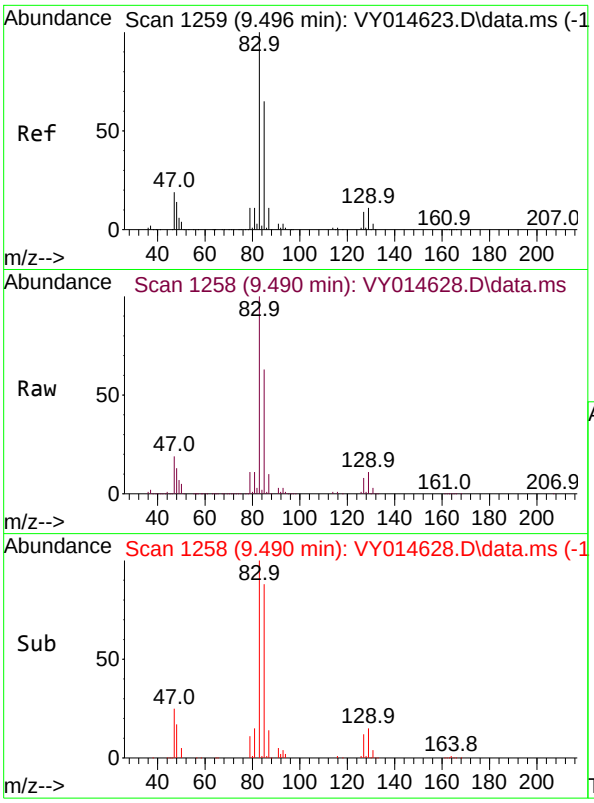


#46
Dibromomethane
Concen: 49.509 ug/l
RT: 9.295 min Scan# 1226
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 93 Resp: 114022

Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.6	100.0
174	99.6	84.8	127.2

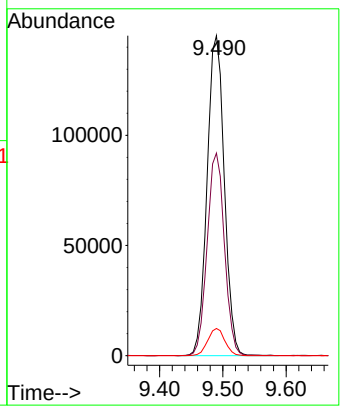




#47
Bromodichloromethane
Concen: 50.646 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 83 Resp: 27491

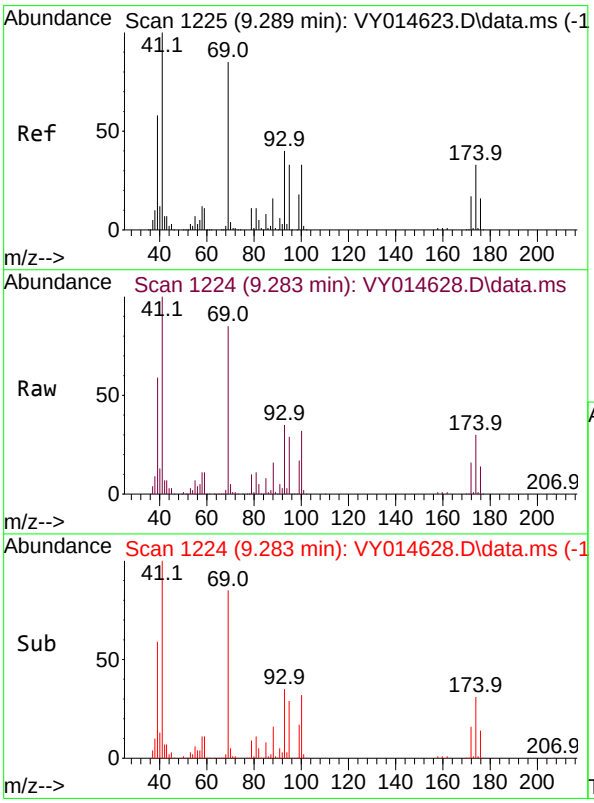
Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.1	75.1
127	8.5	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

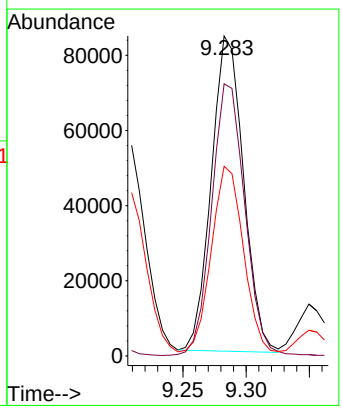
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

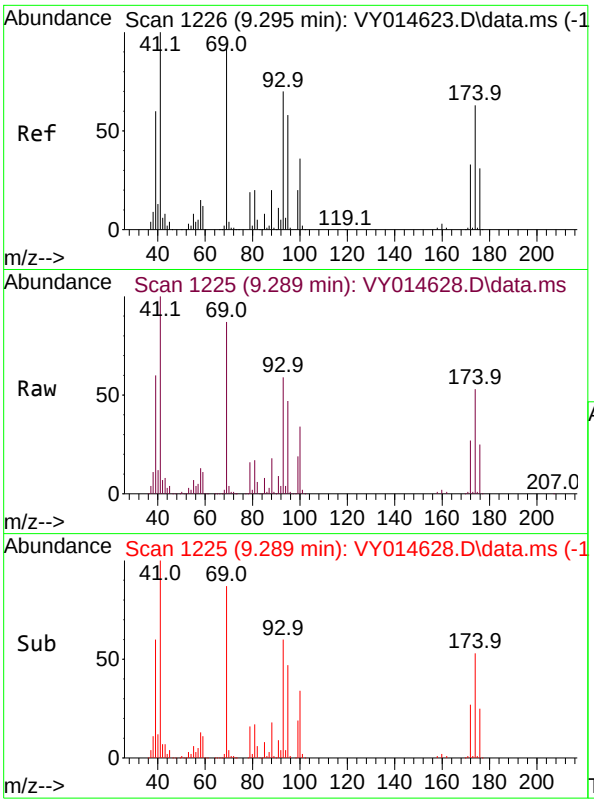


#48
Methyl methacrylate
Concen: 49.197 ug/l
RT: 9.283 min Scan# 1224
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 41 Resp: 148418

Ion	Ratio	Lower	Upper
41	100		
69	88.8	64.5	96.7
39	60.7	50.8	76.2

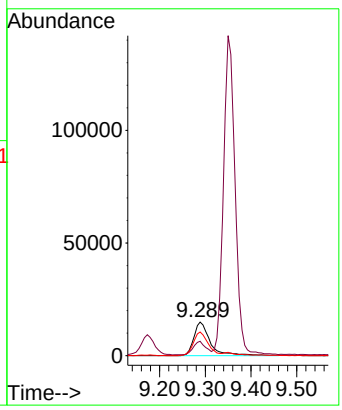




#49
1,4-Dioxane
Concen: 994.793 ug/l
RT: 9.289 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 88 Resp: 3735

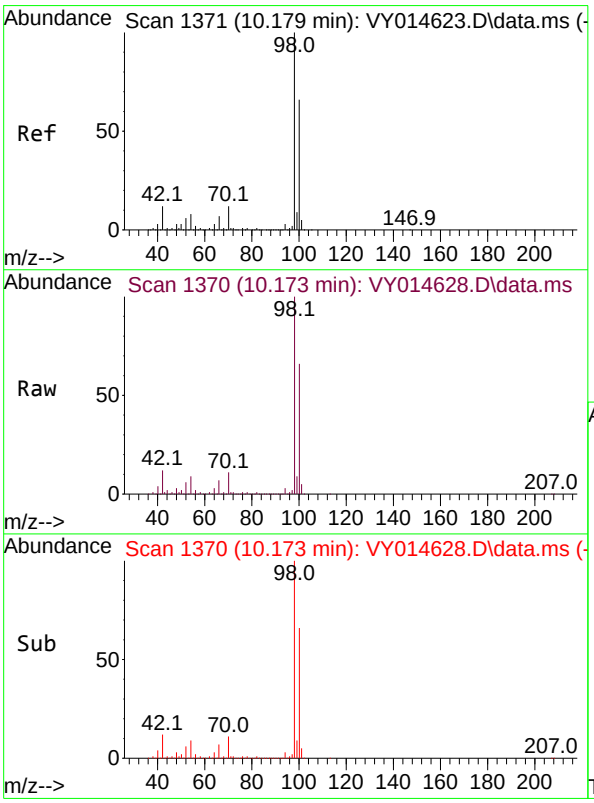
Ion	Ratio	Lower	Upper
88	100		
43	30.6	0.0	0.0#
58	62.3	30.9	46.3#



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

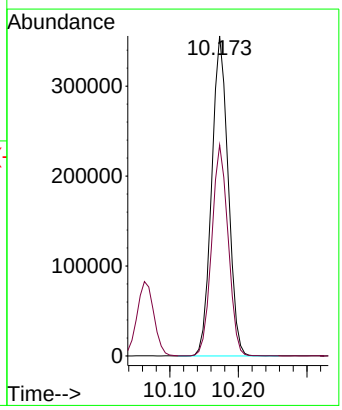
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

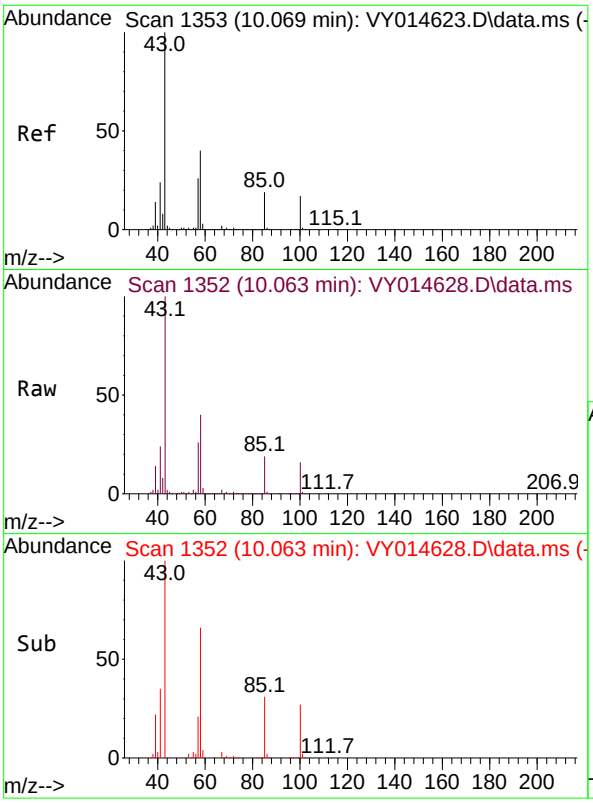


#50
Toluene-d8
Concen: 47.005 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 98 Resp: 592382

Ion	Ratio	Lower	Upper
98	100		
100	65.6	50.1	75.1

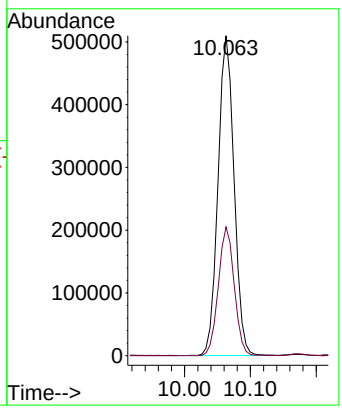




#51
4-Methyl-2-Pentanone
Concen: 245.195 ug/l
RT: 10.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 86311

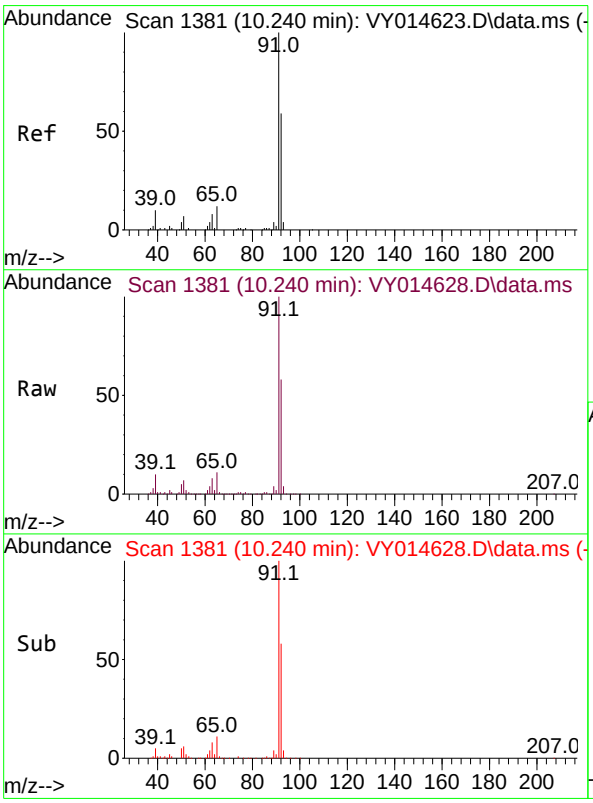
Ion	Ratio	Lower	Upper
43	100		
58	40.0	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

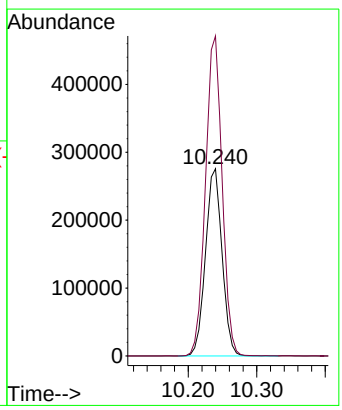
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

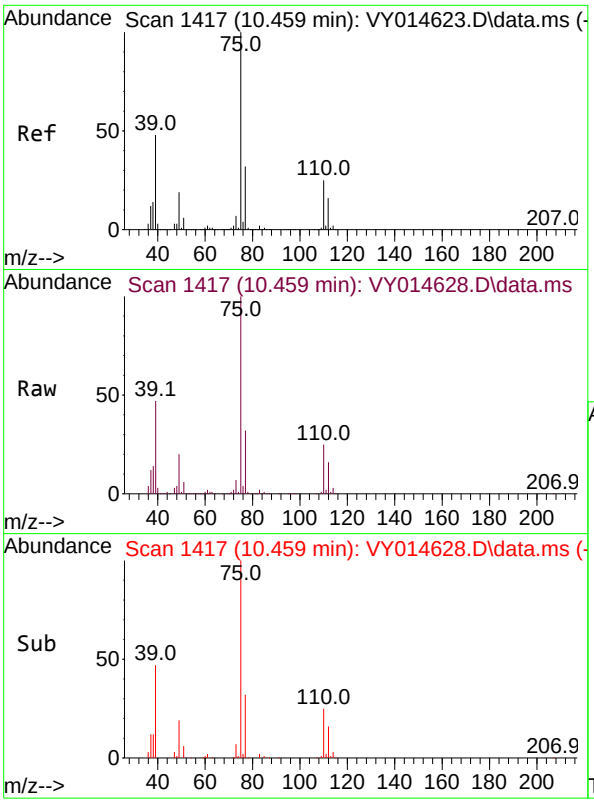


#52
Toluene
Concen: 49.869 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 92 Resp: 463942

Ion	Ratio	Lower	Upper
92	100		
91	171.5	143.8	215.6

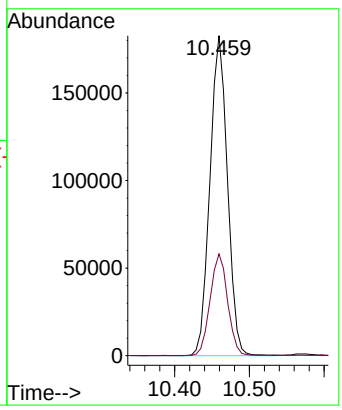




#53
t-1,3-Dichloropropene
Concen: 50.133 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 29766

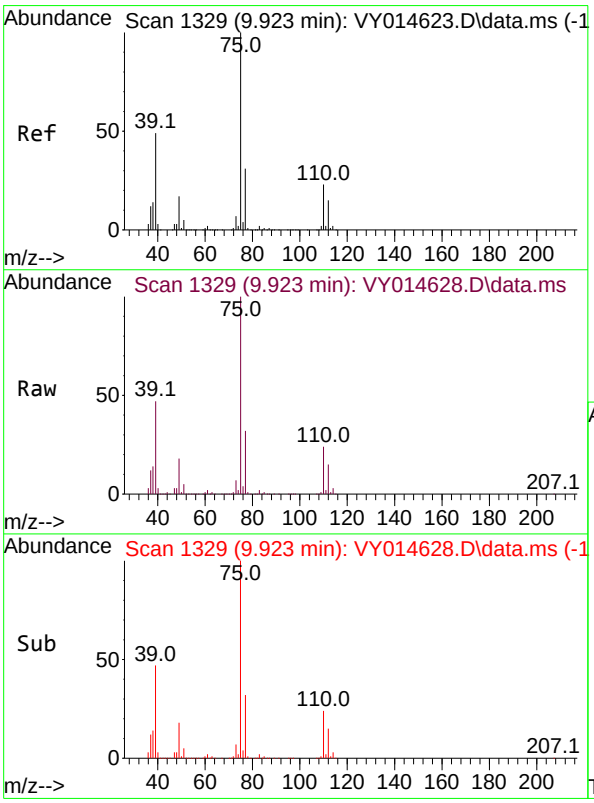
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

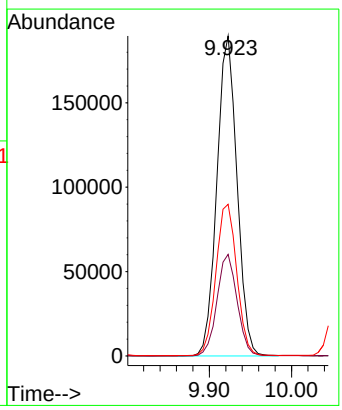
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

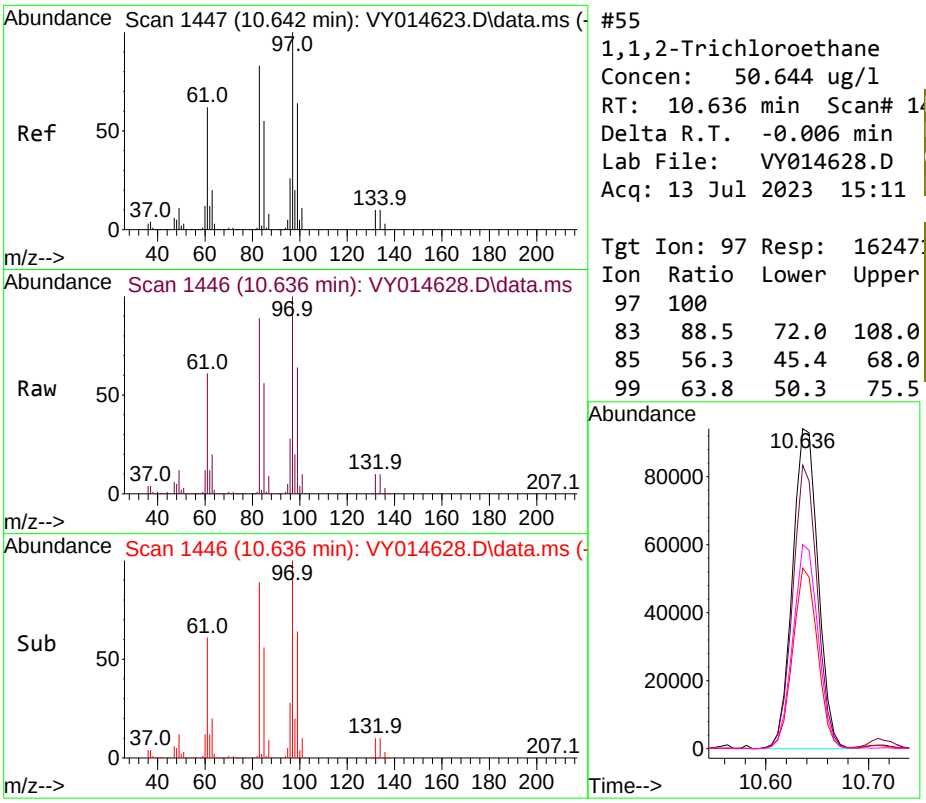


#54
cis-1,3-Dichloropropene
Concen: 50.008 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 322889

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.2	36.4
39	47.3	42.2	63.4





#55
1,1,2-Trichloroethane
Concen: 50.644 ug/l
RT: 10.636 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

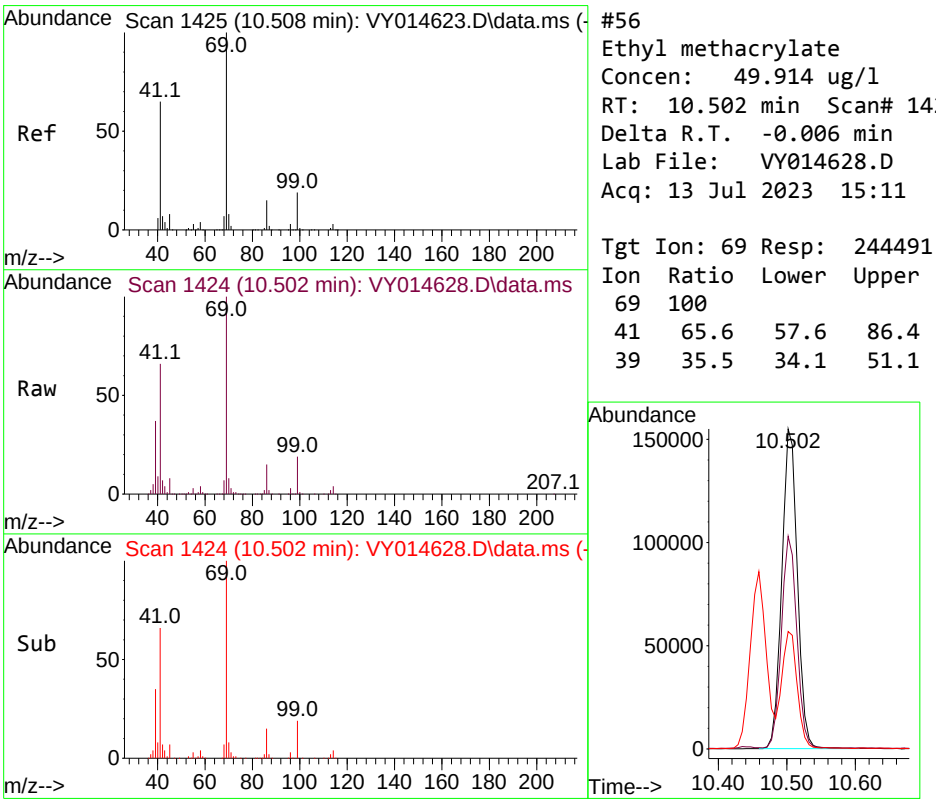
Tgt Ion: 97 Resp: 16247

Ion	Ratio	Lower	Upper
97	100		
83	88.5	72.0	108.0
85	56.3	45.4	68.0
99	63.8	50.3	75.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

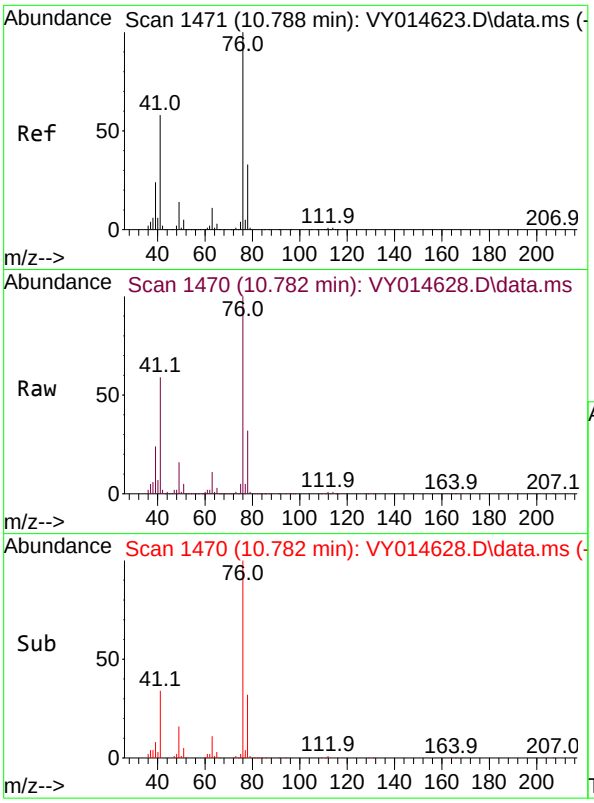
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#56
Ethyl methacrylate
Concen: 49.914 ug/l
RT: 10.502 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 69 Resp: 244491

Ion	Ratio	Lower	Upper
69	100		
41	65.6	57.6	86.4
39	35.5	34.1	51.1



#57
1,3-Dichloropropane
Concen: 49.940 ug/l
RT: 10.782 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

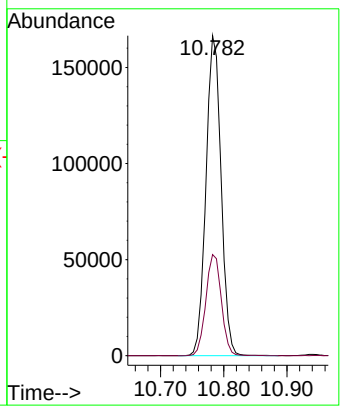
Tgt Ion: 76 Resp: 27633

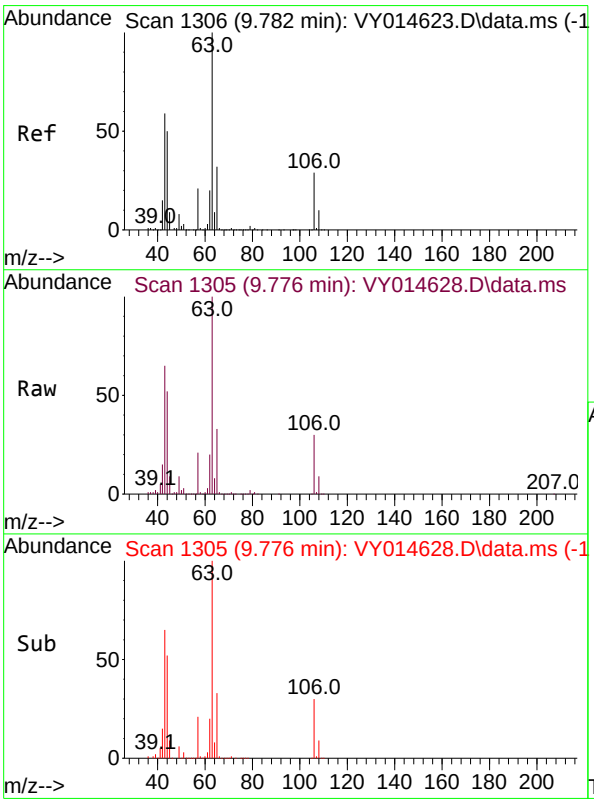
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

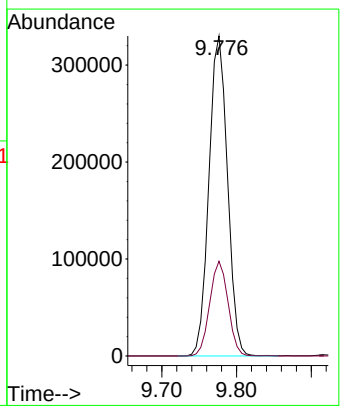


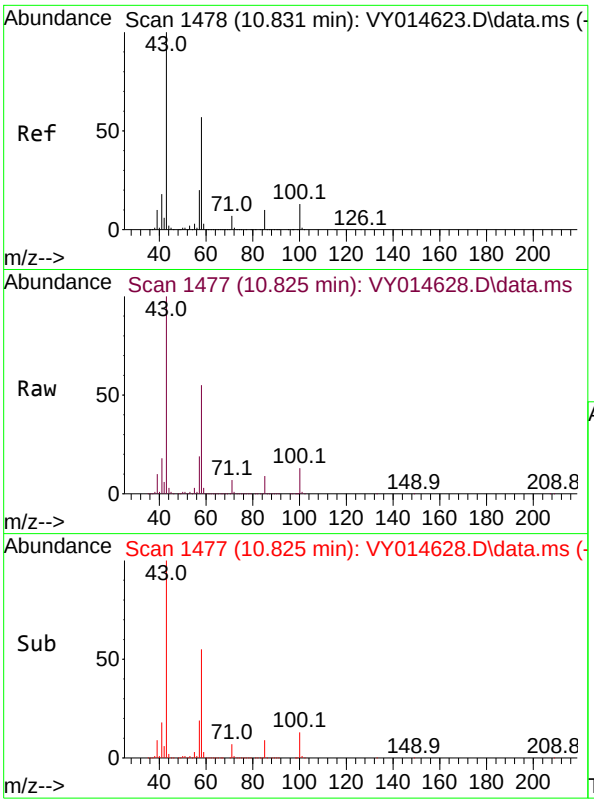


#58
2-Chloroethyl Vinyl ether
Concen: 249.241 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 63 Resp: 568842

Ion	Ratio	Lower	Upper
63	100		
106	29.2	21.2	31.8

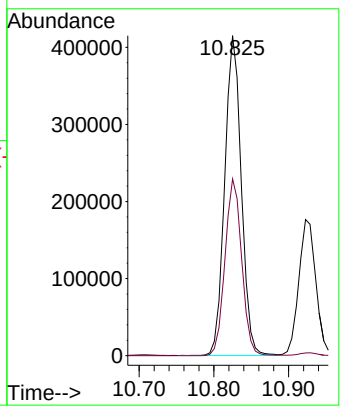




#59
2-Hexanone
Concen: 249.743 ug/l
RT: 10.825 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 64110

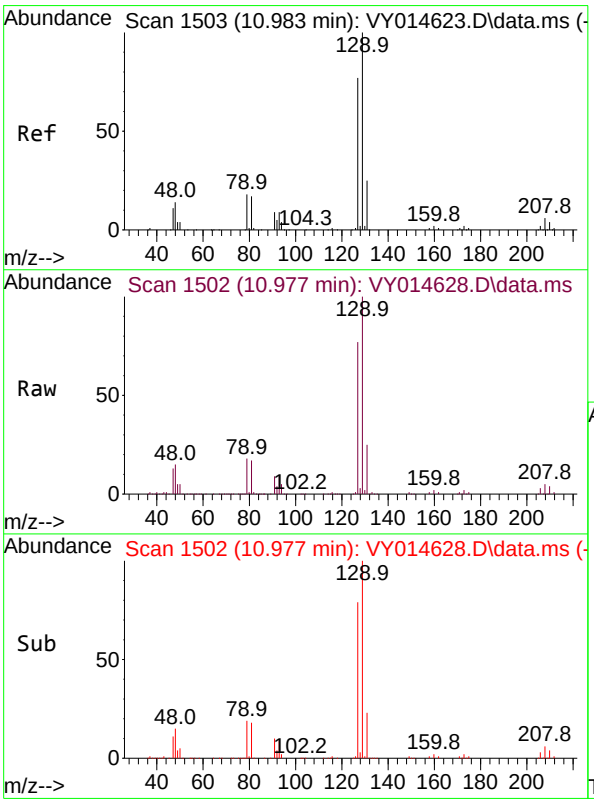
Ion	Ratio	Lower	Upper
43	100		
58	55.7	25.1	75.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

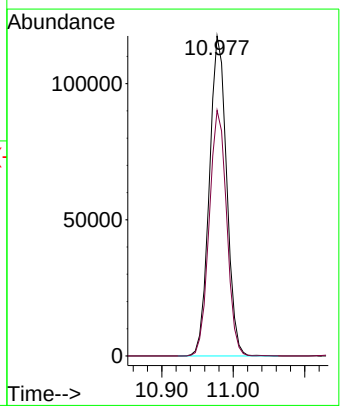
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

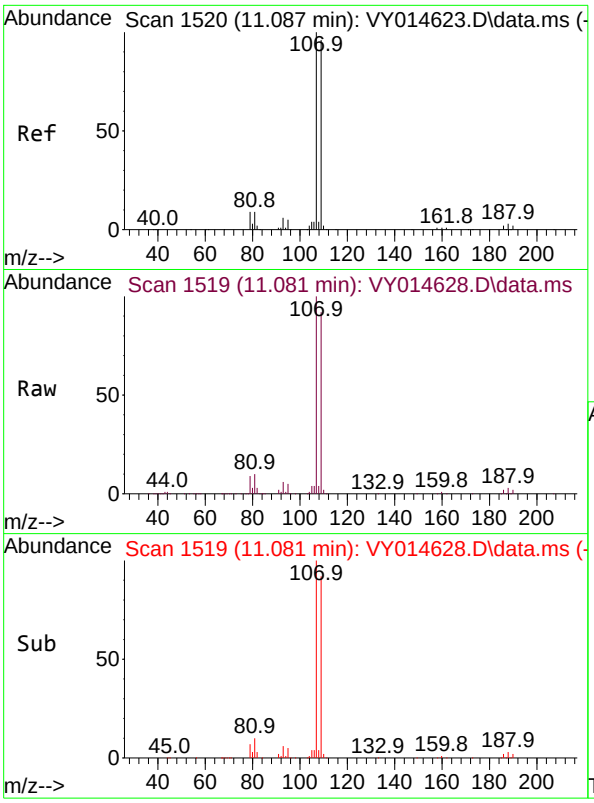


#60
Dibromochloromethane
Concen: 50.064 ug/l
RT: 10.977 min Scan# 1502
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:129 Resp: 196919

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

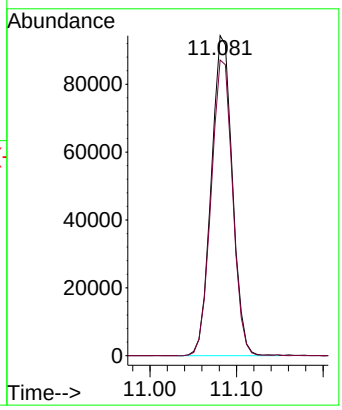




#61
1,2-Dibromoethane
Concen: 49.928 ug/l
RT: 11.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:107 Resp: 15979

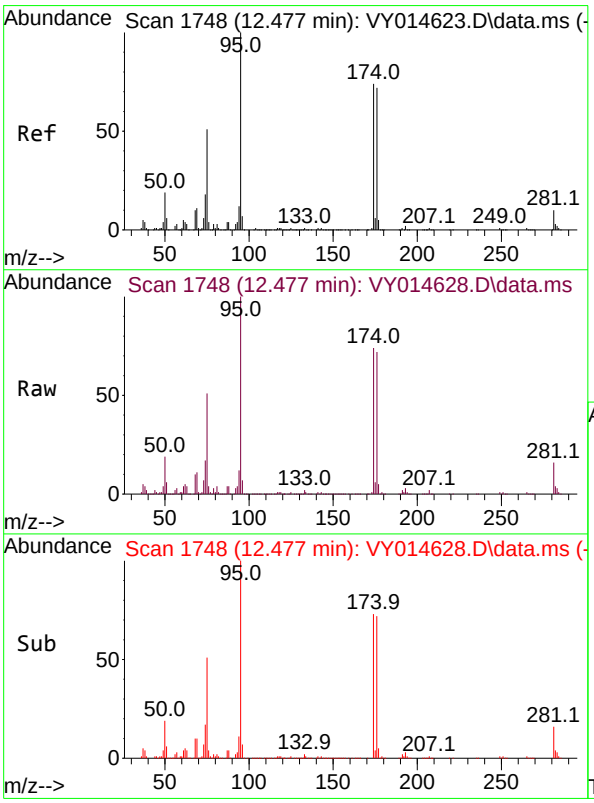
Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

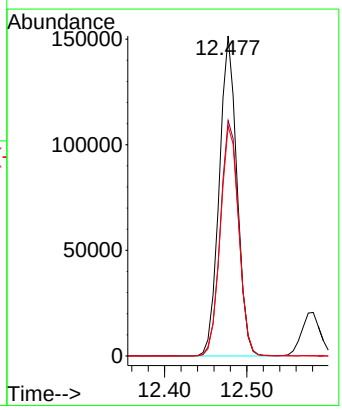
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

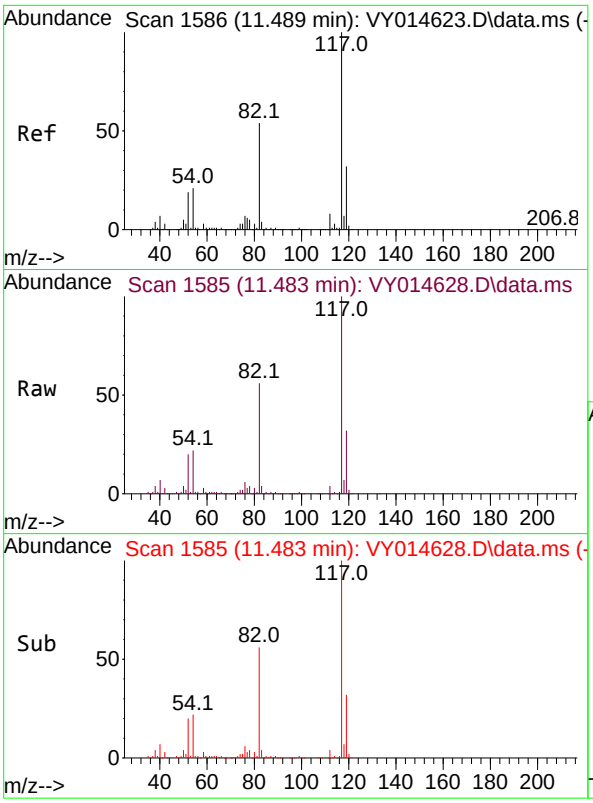


#62
4-Bromofluorobenzene
Concen: 47.022 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 95 Resp: 227225

Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	178.2
176	74.5	0.0	173.8

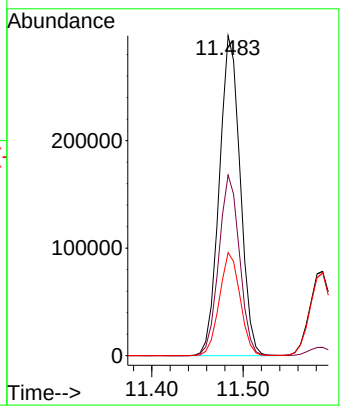




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:117 Resp: 47227

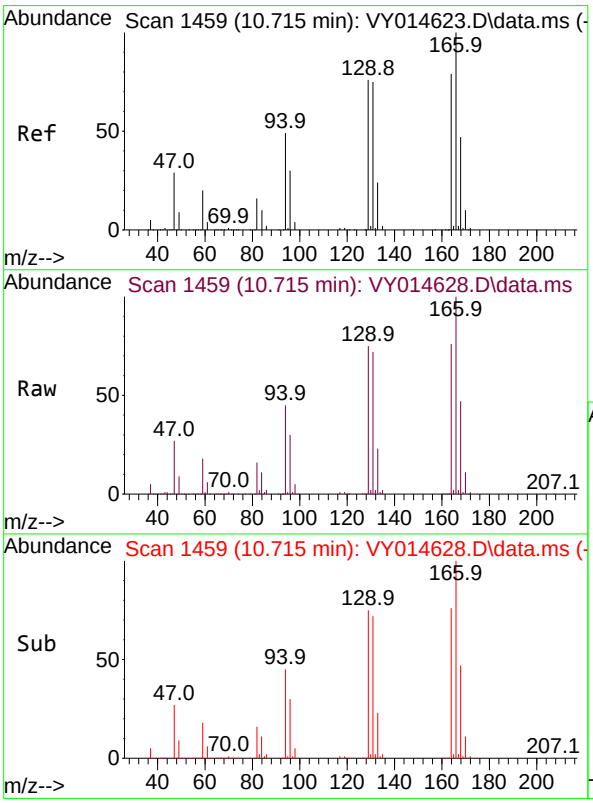
Ion	Ratio	Lower	Upper
117	100		
82	56.4	43.4	65.0
119	32.2	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

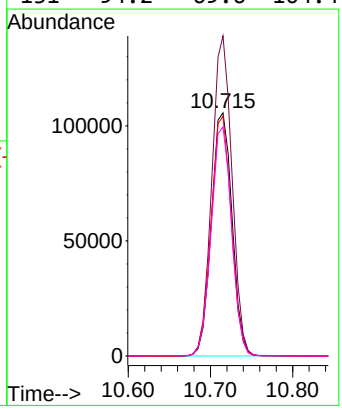
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

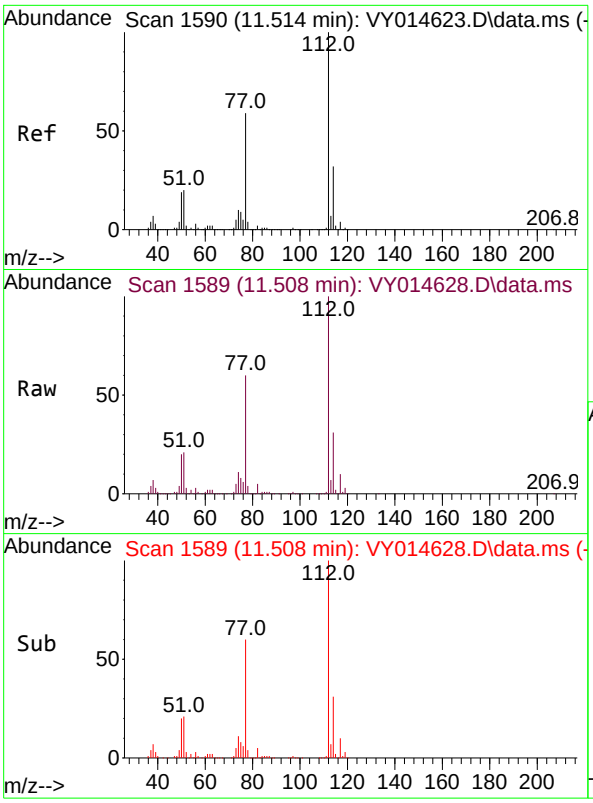


#64
Tetrachloroethene
Concen: 48.653 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:164 Resp: 184802

Ion	Ratio	Lower	Upper
164	100		
166	131.7	103.0	154.6
129	98.6	77.2	115.8
131	94.2	69.6	104.4

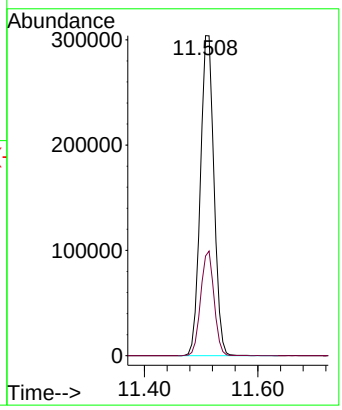




#65
Chlorobenzene
Concen: 50.128 ug/l
RT: 11.508 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:112 Resp: 50449

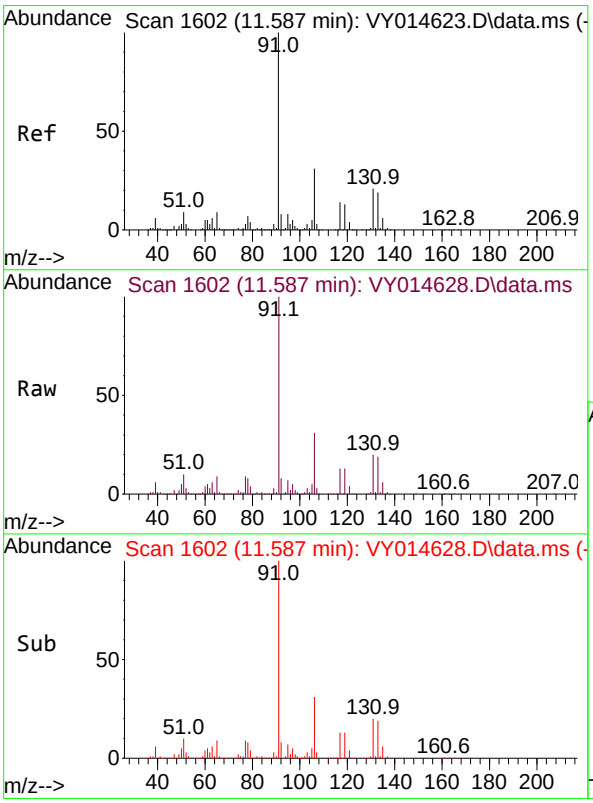
Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

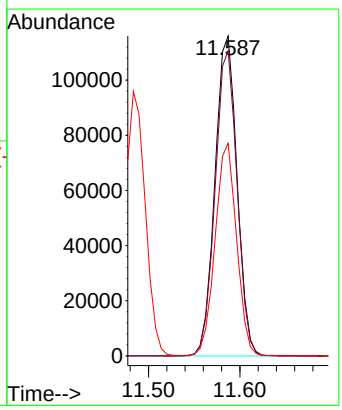
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

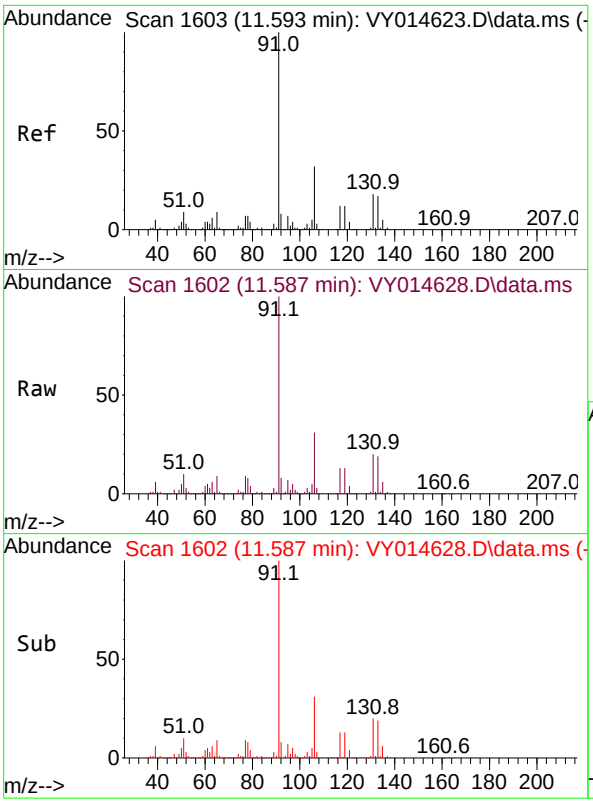


#66
1,1,1,2-Tetrachloroethane
Concen: 51.326 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:131 Resp: 194761

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.5	142.6
119	64.8	31.6	94.7

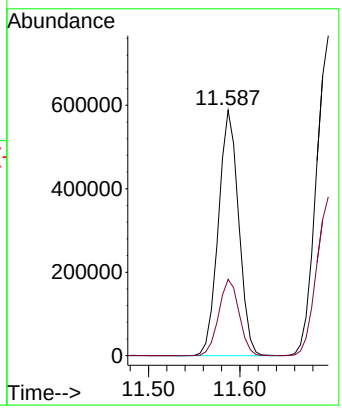




#67
Ethyl Benzene
Concen: 49.873 ug/l
RT: 11.587 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 91 Resp: 90623

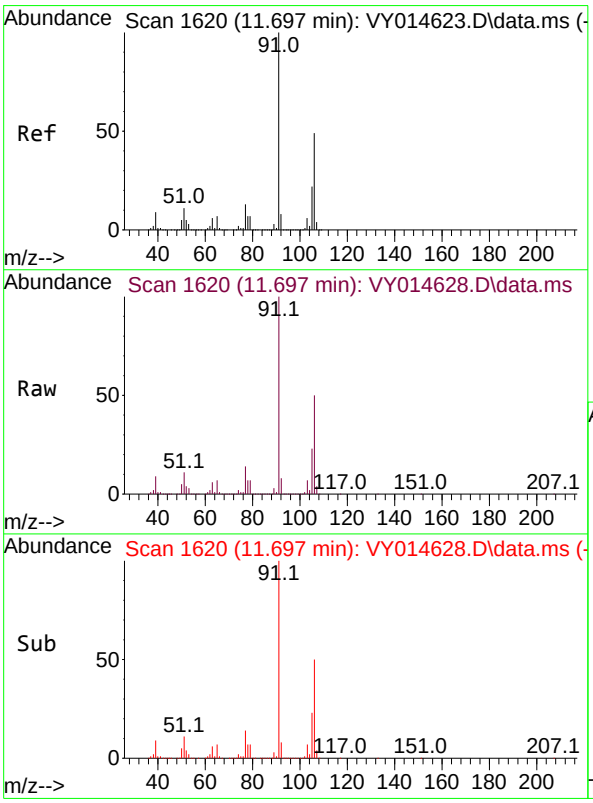
Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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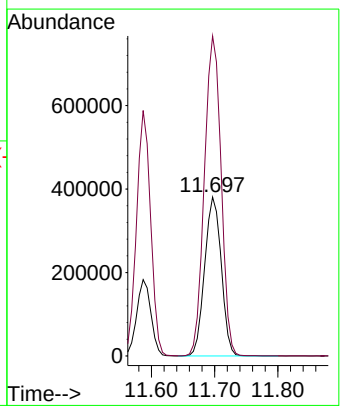
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

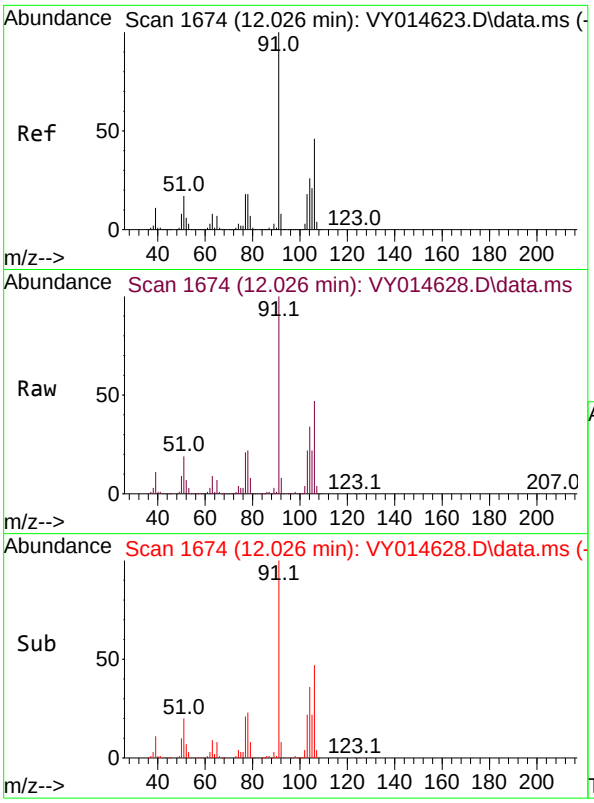


#68
m/p-Xylenes
Concen: 100.250 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:106 Resp: 695363

Ion	Ratio	Lower	Upper
106	100		
91	203.0	166.1	249.1





#69
o-Xylene
Concen: 50.370 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

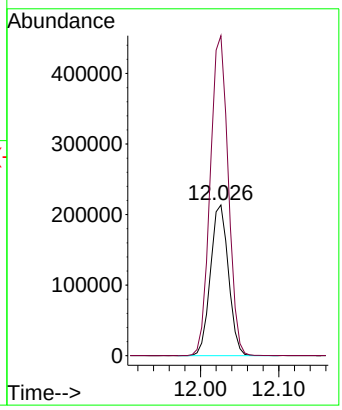
Tgt Ion:106 Resp: 34029

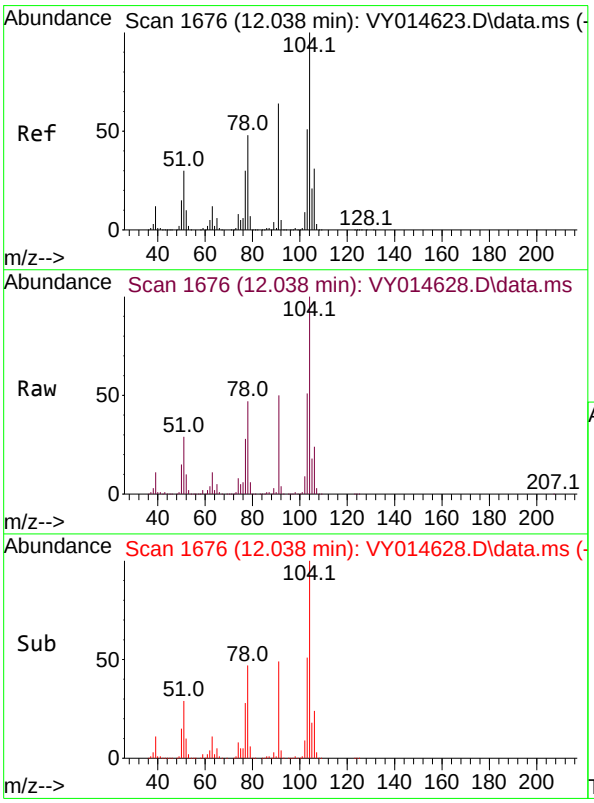
Ion	Ratio	Lower	Upper
106	100		
91	212.5	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

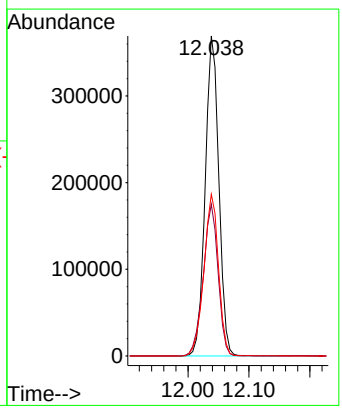


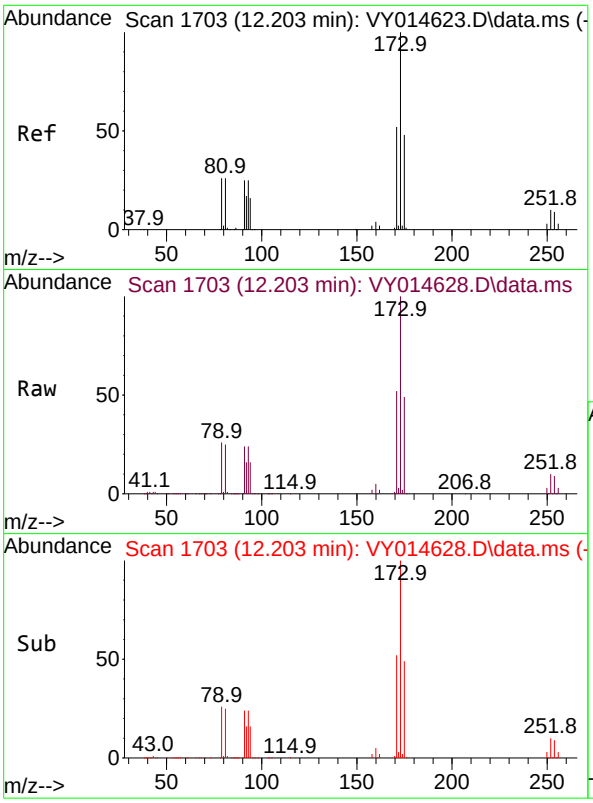


#70
Styrene
Concen: 50.422 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:104 Resp: 574147

Ion	Ratio	Lower	Upper
104	100		
78	51.6	41.5	62.3
103	54.3	44.6	67.0

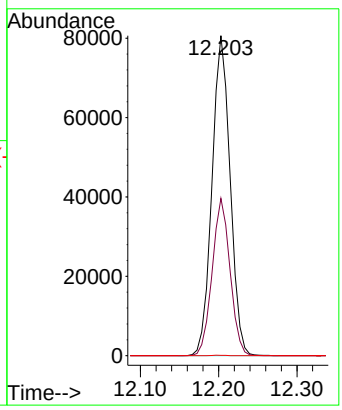




#71
Bromoform
Concen: 50.398 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:173 Resp: 12962

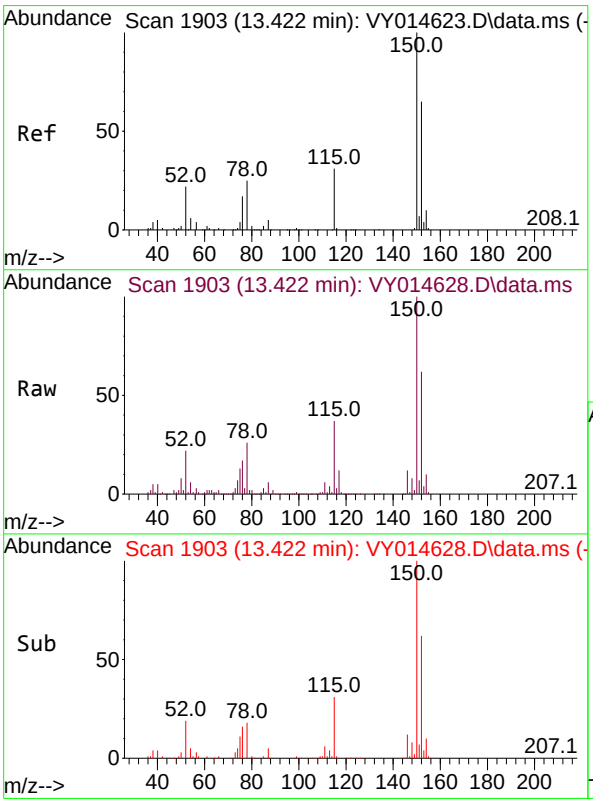
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

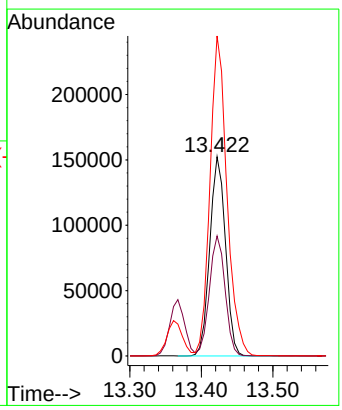
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

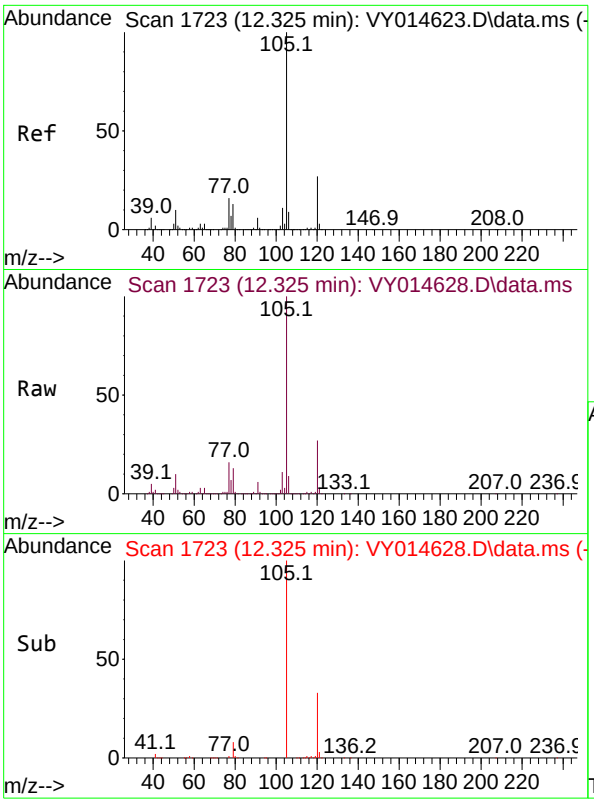


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:152 Resp: 232652

Ion	Ratio	Lower	Upper
152	100		
115	60.0	28.8	86.5
150	173.3	0.0	348.8

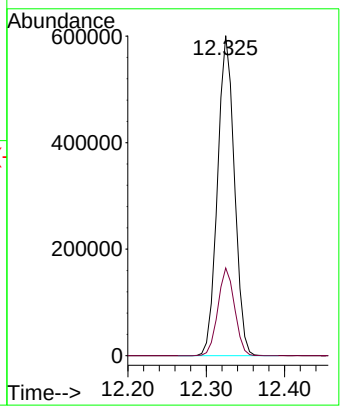




#73
Isopropylbenzene
Concen: 49.498 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:105 Resp: 90169

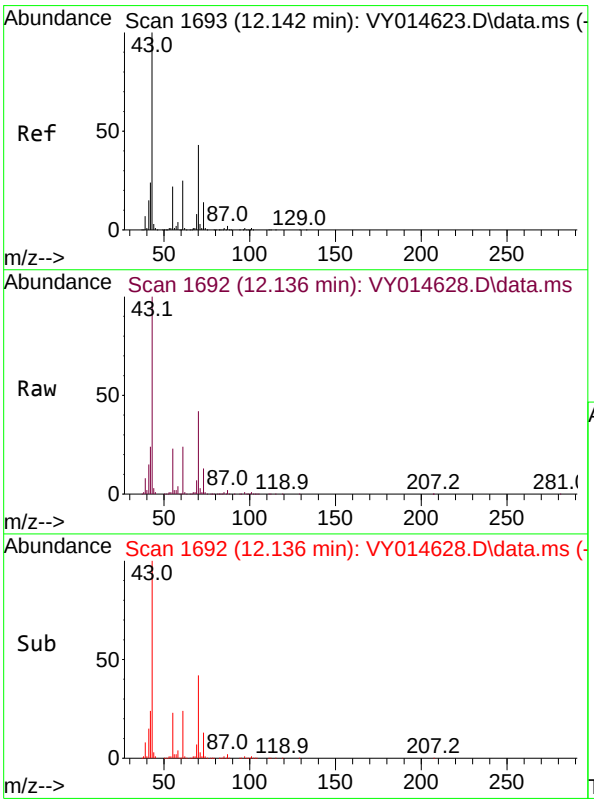
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

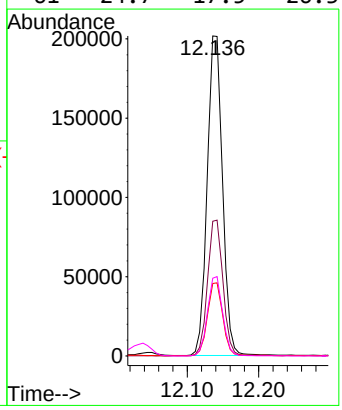
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

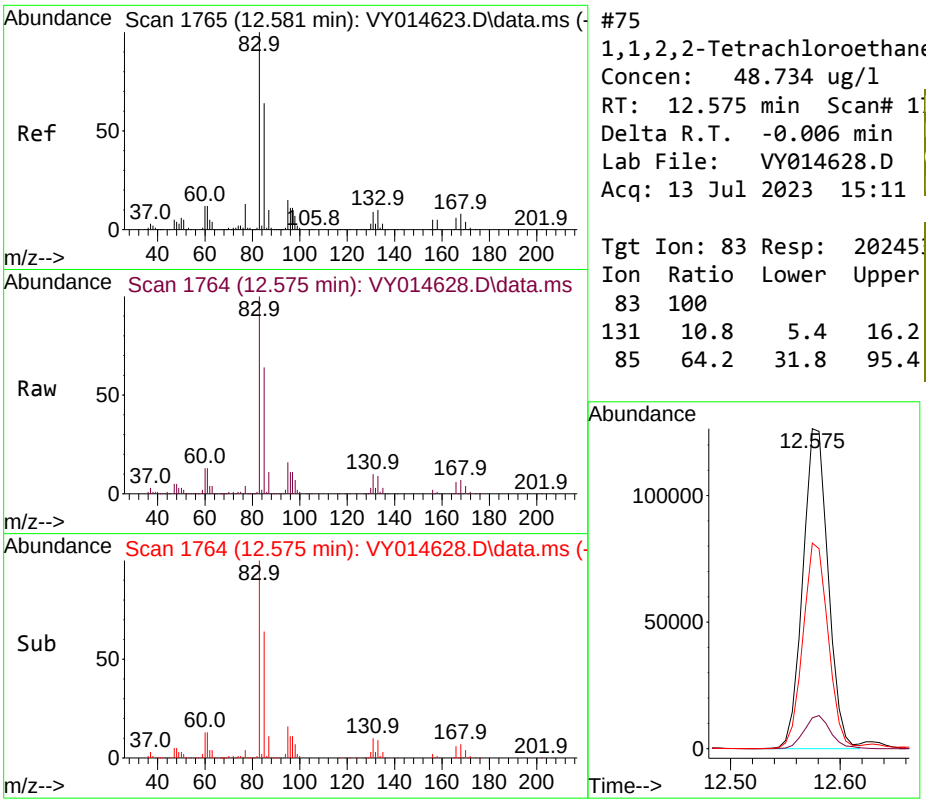


#74
N-amyl acetate
Concen: 49.128 ug/l
RT: 12.136 min Scan# 1692
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 43 Resp: 299735

Ion	Ratio	Lower	Upper
43	100		
70	42.7	29.7	44.5
55	22.8	18.3	27.5
61	24.7	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 48.734 ug/l
RT: 12.575 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

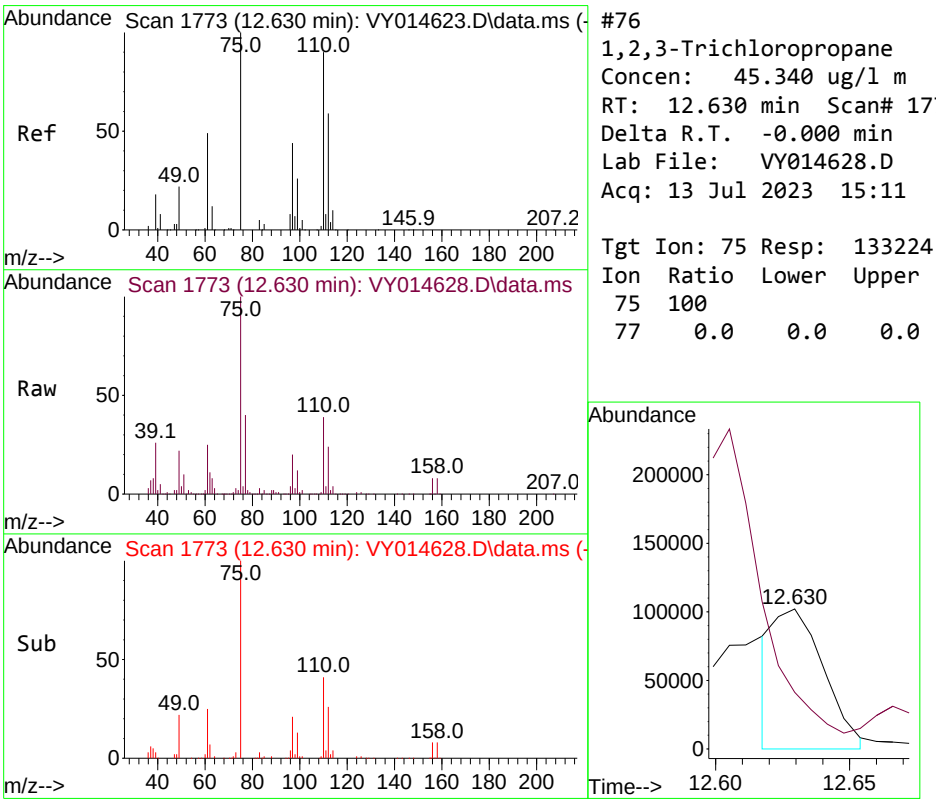
Tgt Ion: 83 Resp: 20245

Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.4	16.2
85	64.2	31.8	95.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

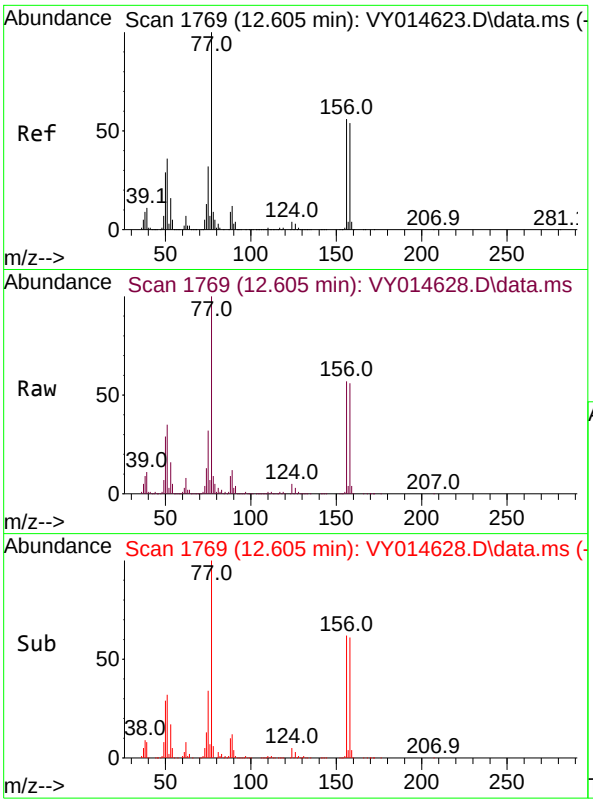
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#76
1,2,3-Trichloropropane
Concen: 45.340 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 133224

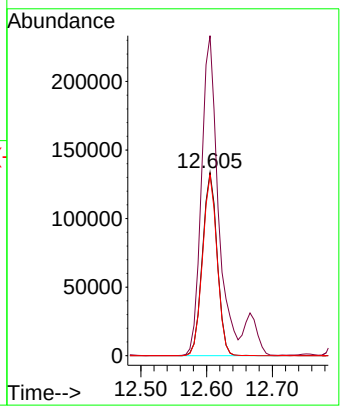
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#77
Bromobenzene
Concen: 50.061 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:156 Resp: 20816

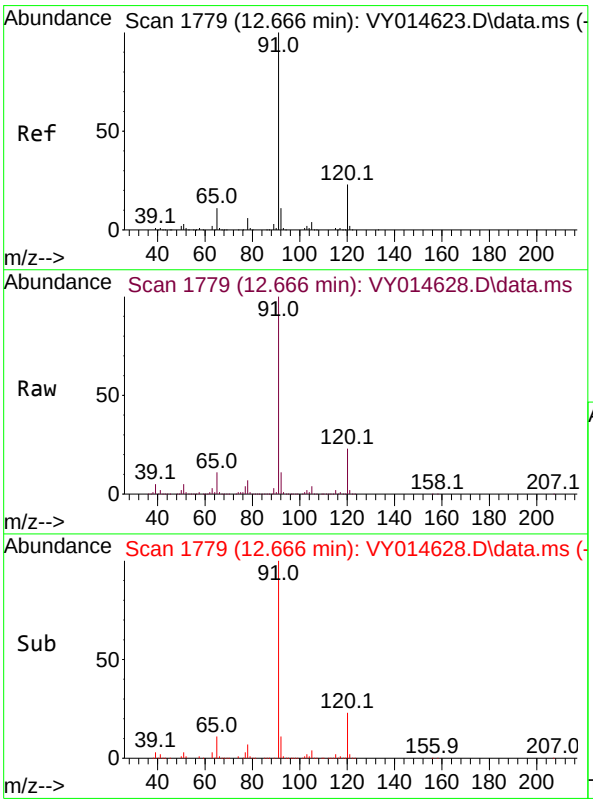
Ion	Ratio	Lower	Upper
156	100		
77	197.9	92.8	278.6
158	97.5	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

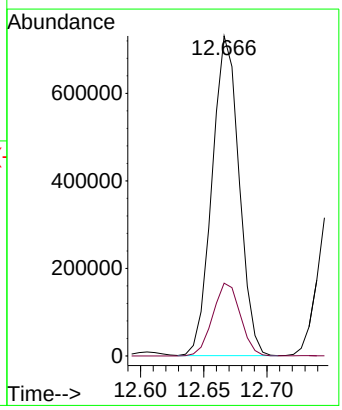
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

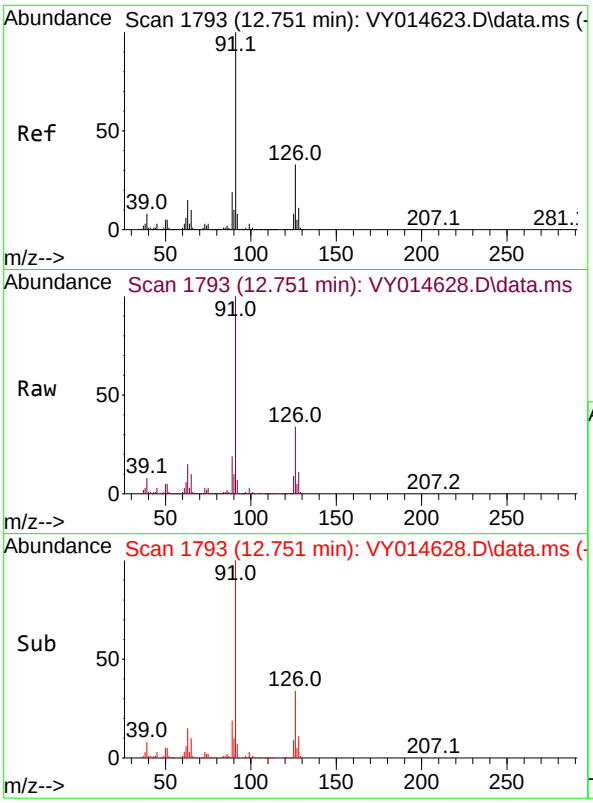


#78
n-propylbenzene
Concen: 49.489 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 91 Resp: 1086342

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.4

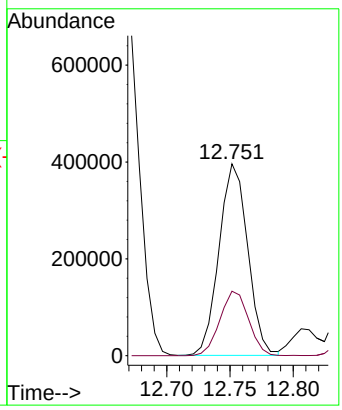




#79
2-Chlorotoluene
Concen: 49.462 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 91 Resp: 62537

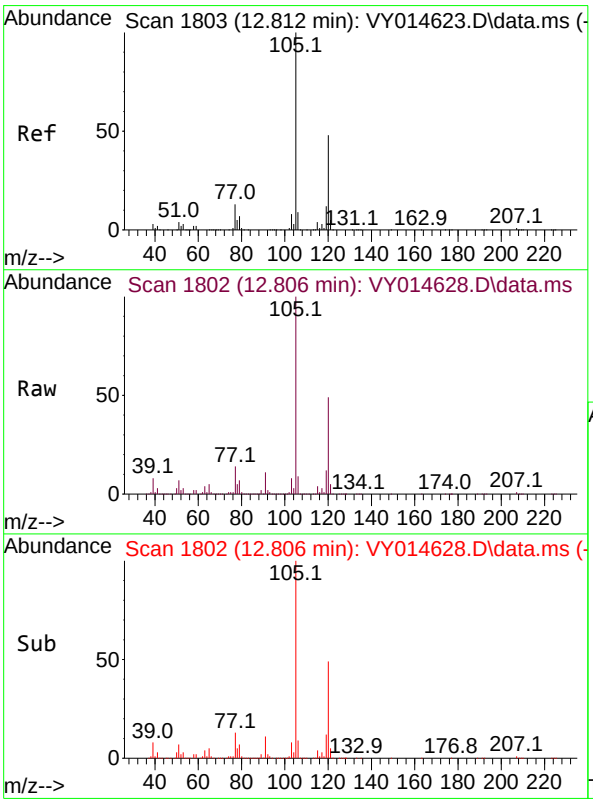
Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.3	51.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
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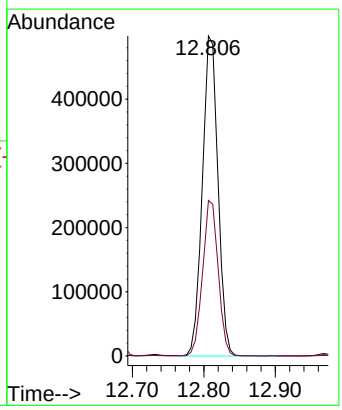
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

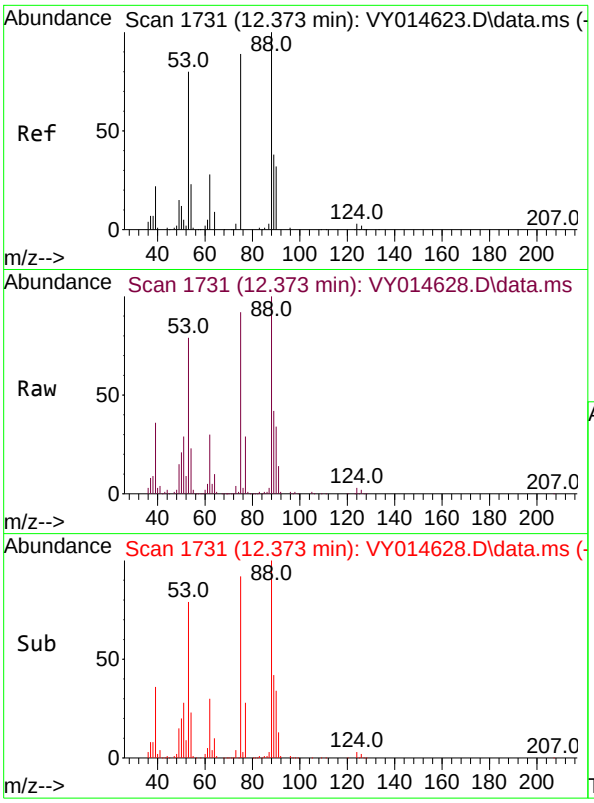


#80
1,3,5-Trimethylbenzene
Concen: 49.654 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:105 Resp: 755413

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.9	71.7

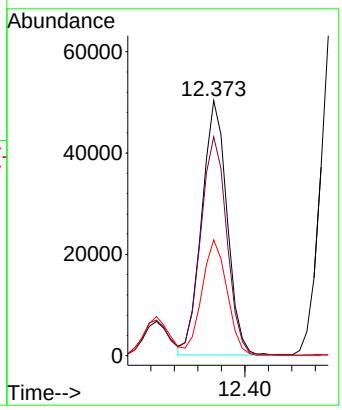




#81
trans-1,4-Dichloro-2-butene
Concen: 49.517 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 7514

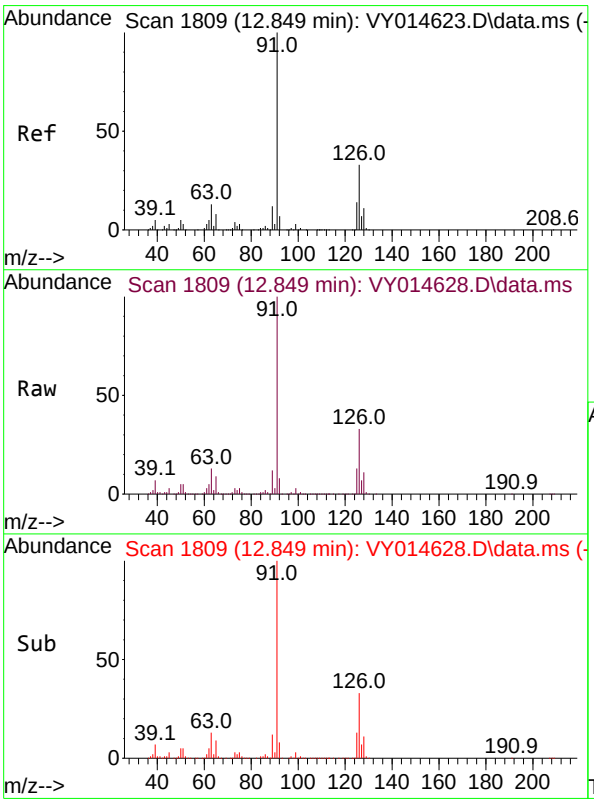
Ion	Ratio	Lower	Upper
75	100		
53	88.0	77.8	116.8
89	45.3	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

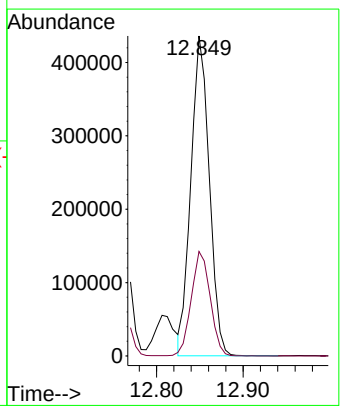
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

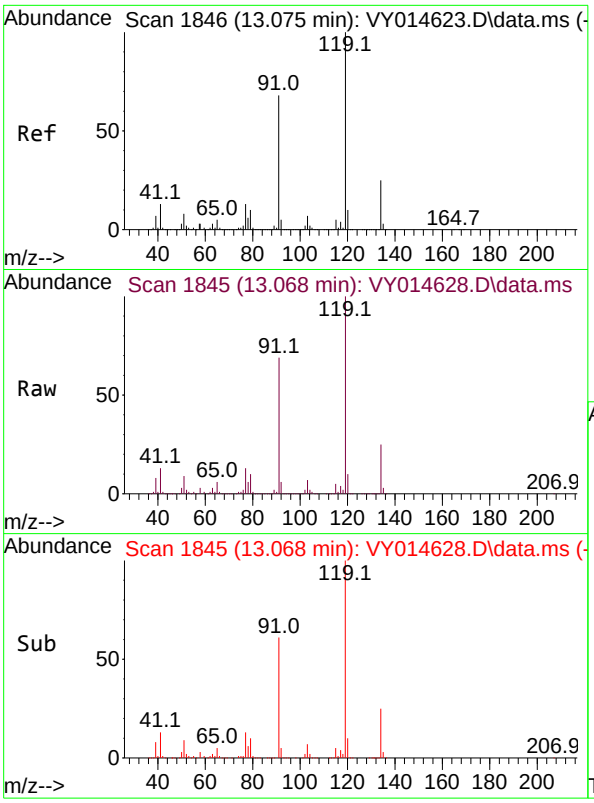


#82
4-Chlorotoluene
Concen: 49.419 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 91 Resp: 643515

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.2	51.6

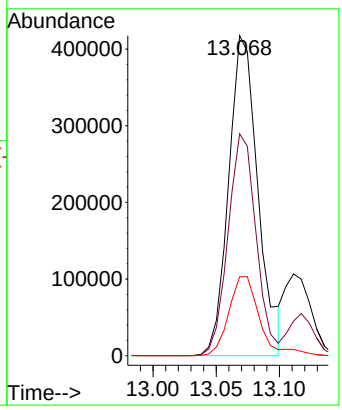




#83
tert-Butylbenzene
Concen: 49.928 ug/l
RT: 13.068 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:119 Resp: 67380

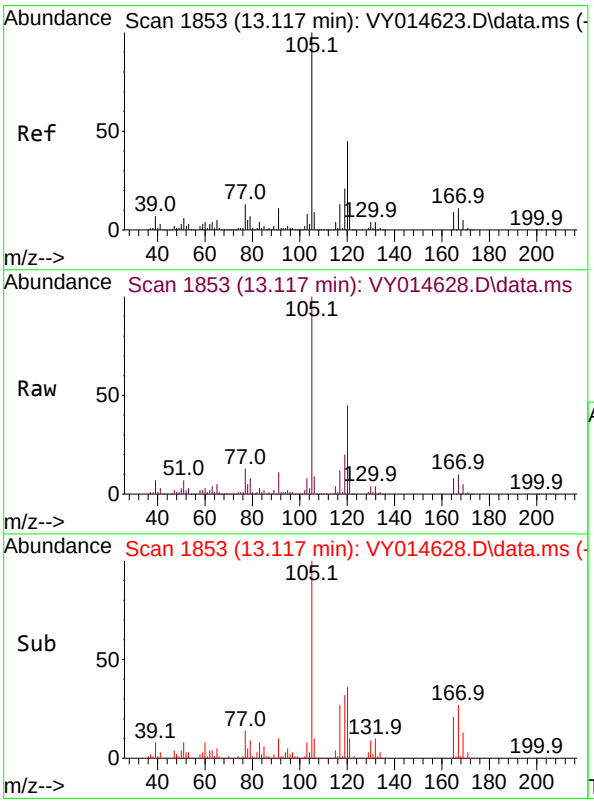
Ion	Ratio	Lower	Upper
119	100		
91	66.5	32.9	98.6
134	26.0	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

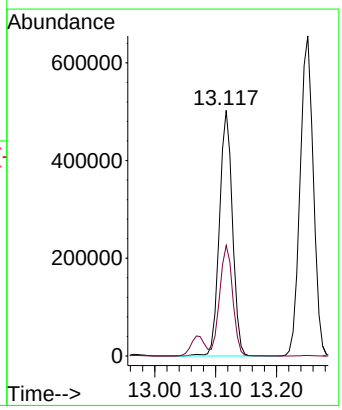
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

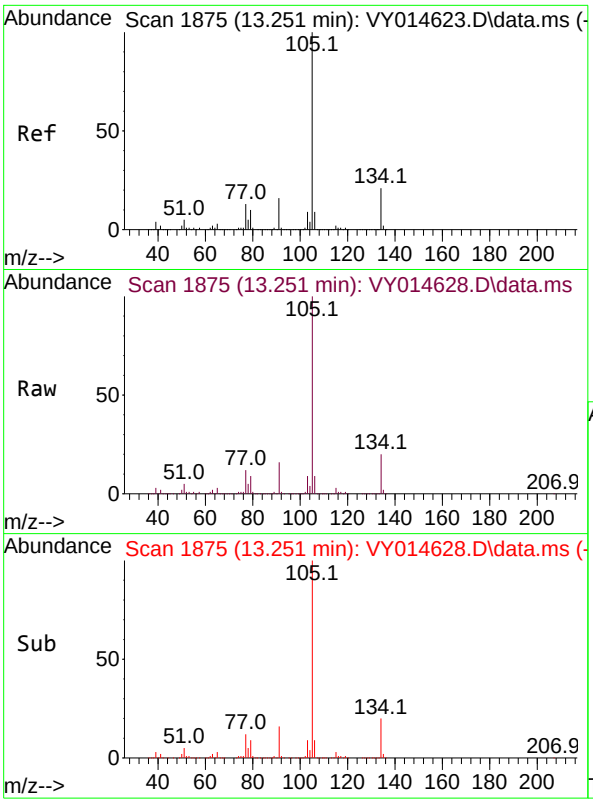


#84
1,2,4-Trimethylbenzene
Concen: 49.771 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:105 Resp: 743106

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.2	66.6

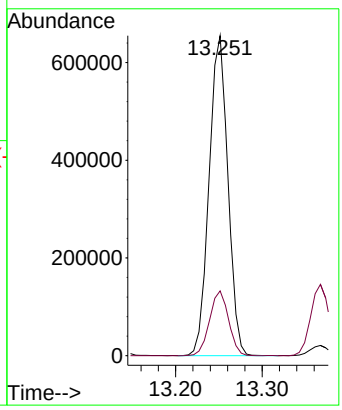




#85
sec-Butylbenzene
Concen: 49.821 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:105 Resp: 98631

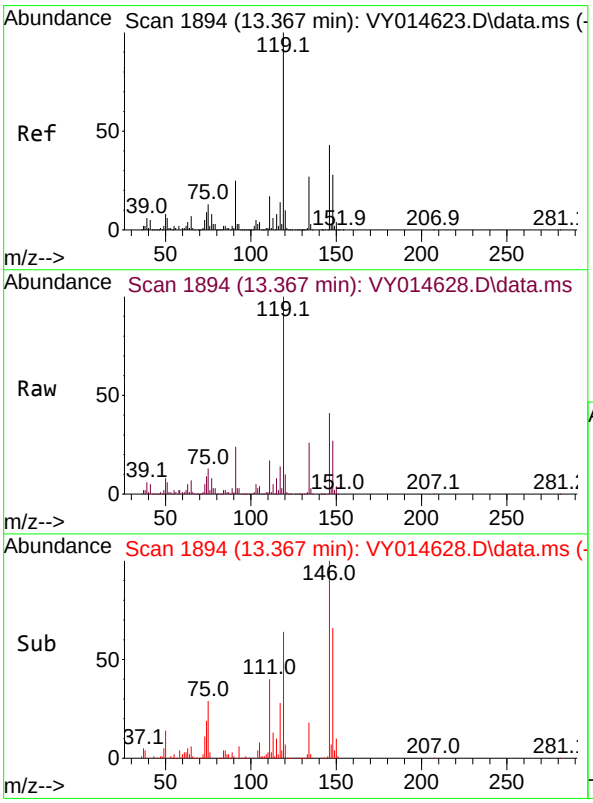
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations
APPROVED

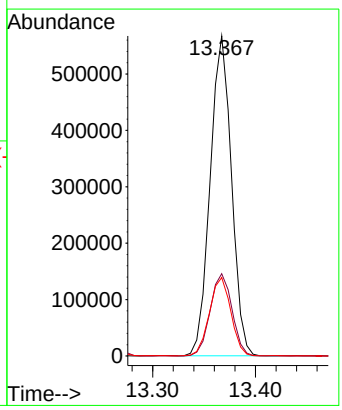
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

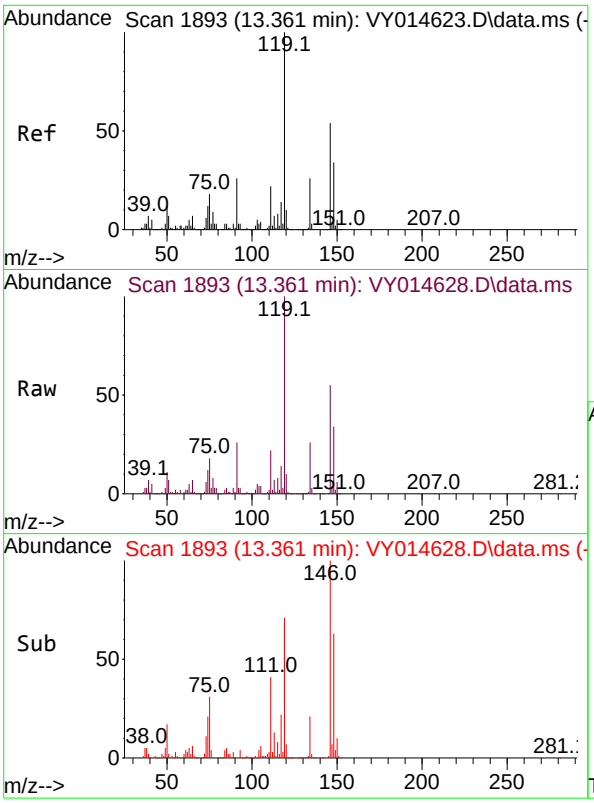


#86
p-Isopropyltoluene
Concen: 50.483 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:119 Resp: 815985

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.3	39.8
91	24.5	12.4	37.4

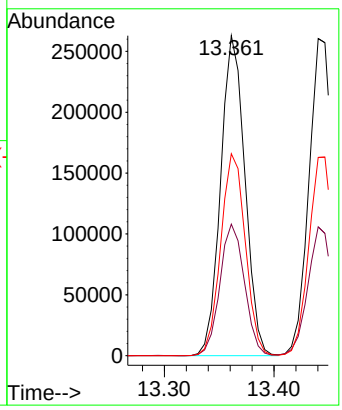




#87
1,3-Dichlorobenzene
Concen: 49.972 ug/l
RT: 13.361 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:146 Resp: 40443

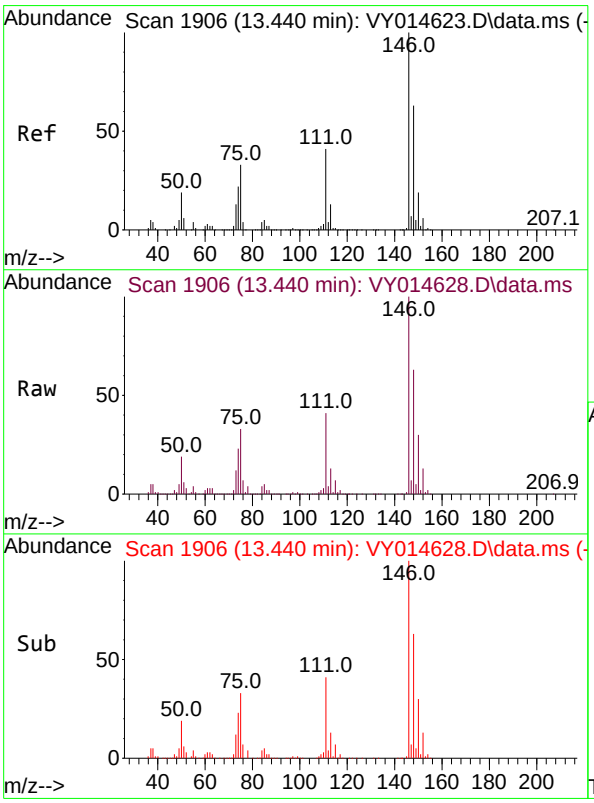
Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.4	58.2
148	63.9	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

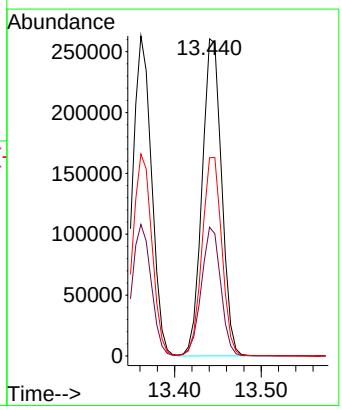
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

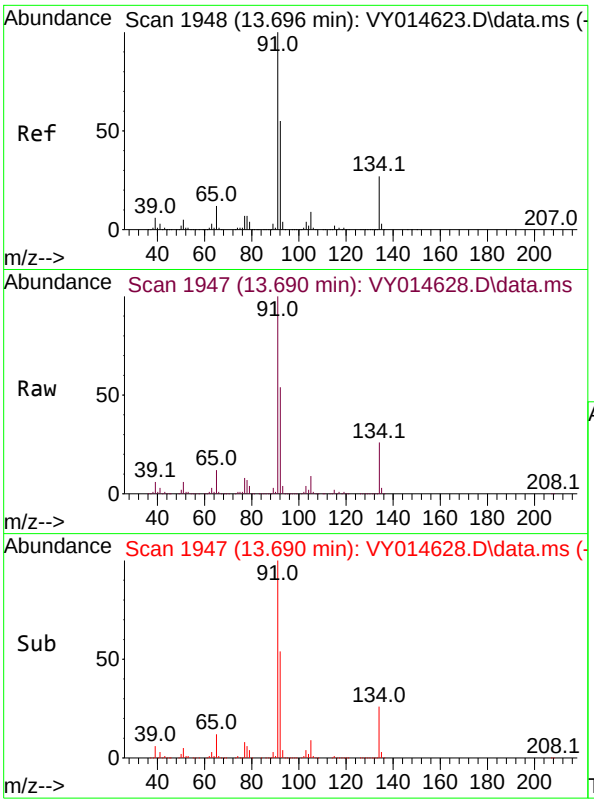


#88
1,4-Dichlorobenzene
Concen: 50.219 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:146 Resp: 407268

Ion	Ratio	Lower	Upper
146	100		
111	40.3	18.9	56.7
148	63.5	32.1	96.5

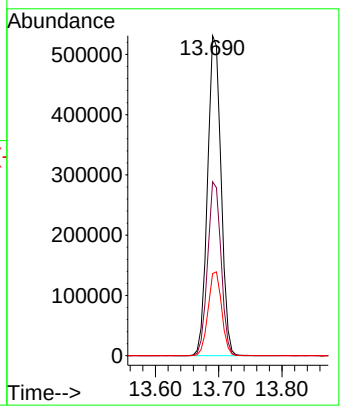




#89
n-Butylbenzene
Concen: 50.112 ug/l
RT: 13.690 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 91 Resp: 78804

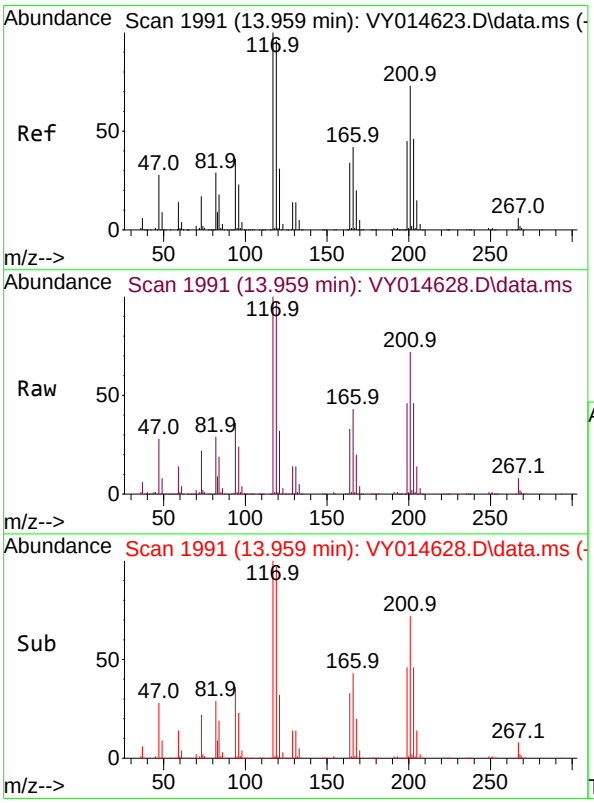
Ion	Ratio	Lower	Upper
91	100		
92	54.1	25.4	76.0
134	26.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

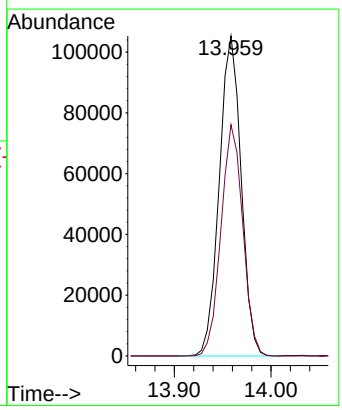
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

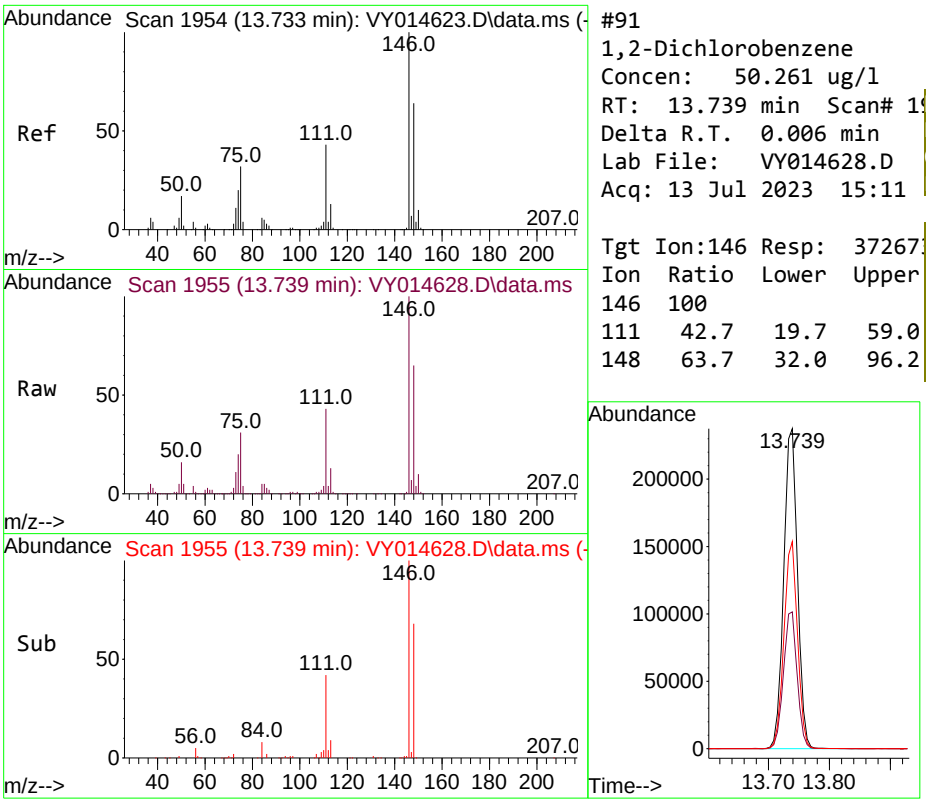


#90
Hexachloroethane
Concen: 49.714 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:117 Resp: 165051

Ion	Ratio	Lower	Upper
117	100		
201	72.2	41.6	124.8





#91
1,2-Dichlorobenzene
Concen: 50.261 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

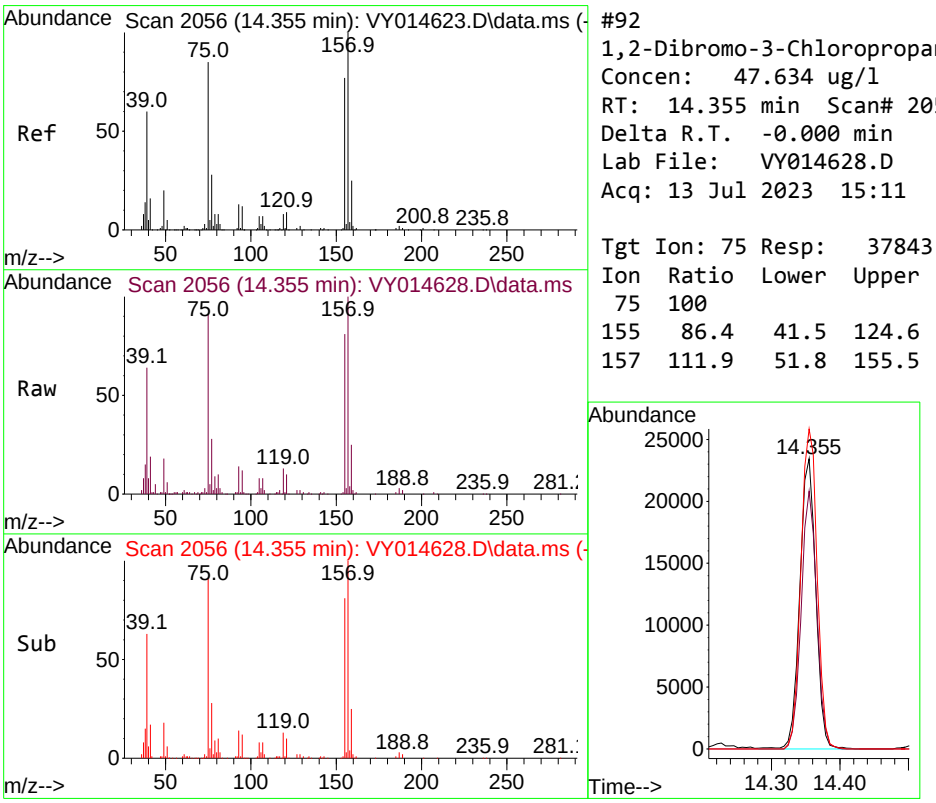
Tgt Ion:146 Resp: 37267

Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.7	59.0
148	63.7	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

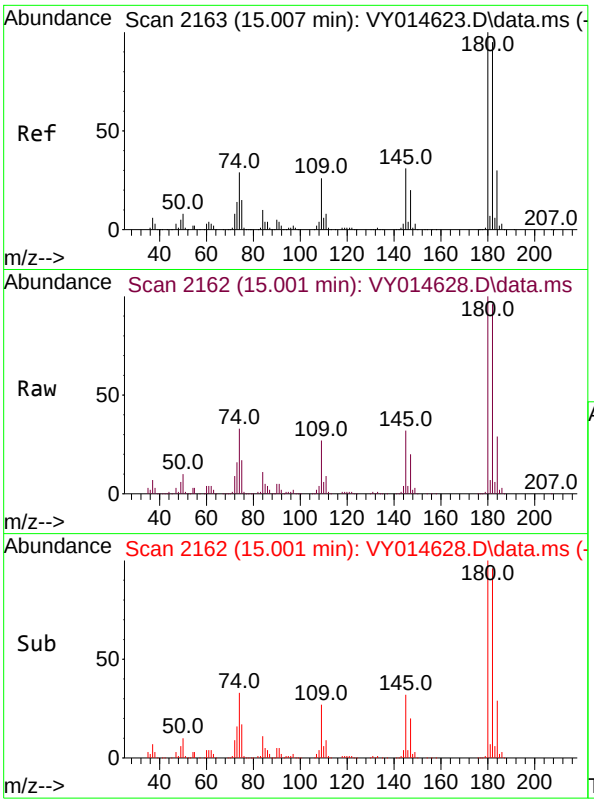
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.634 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion: 75 Resp: 37843

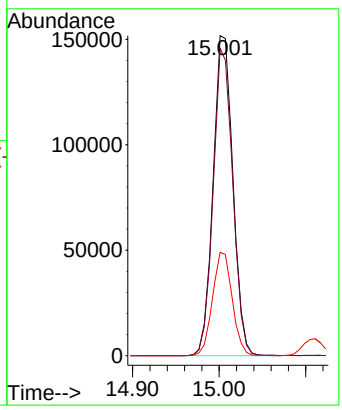
Ion	Ratio	Lower	Upper
75	100		
155	86.4	41.5	124.6
157	111.9	51.8	155.5



#93
1,2,4-Trichlorobenzene
Concen: 51.193 ug/l
RT: 15.001 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:180 Resp: 24095

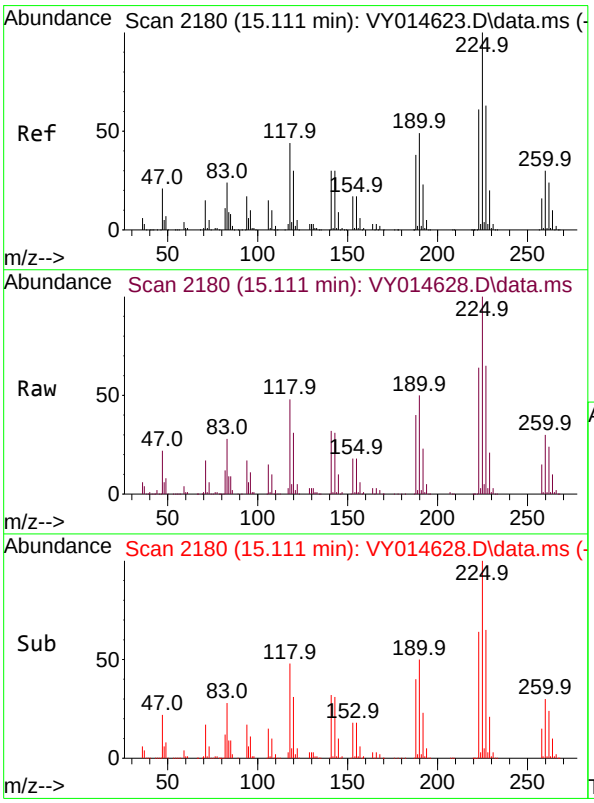
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.2
145	32.2	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

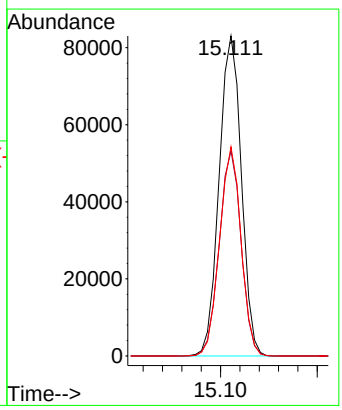
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023

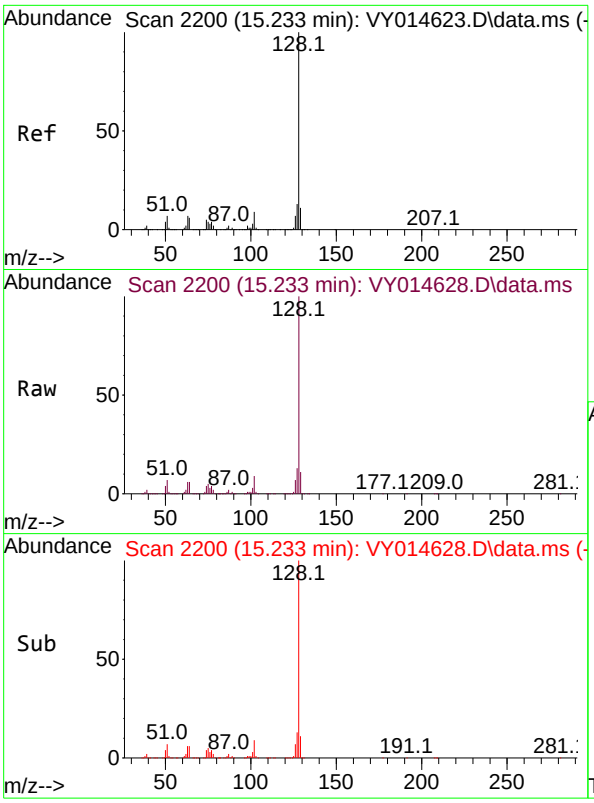


#94
Hexachlorobutadiene
Concen: 51.119 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:225 Resp: 132225

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.9
227	63.3	33.0	98.9

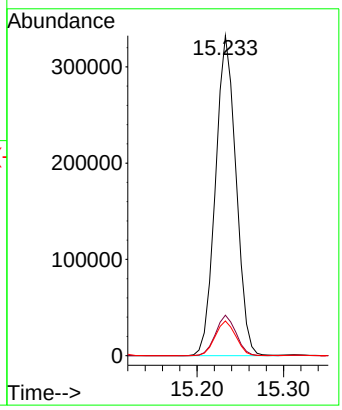




#95
Naphthalene
Concen: 49.992 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:128 Resp: 54820

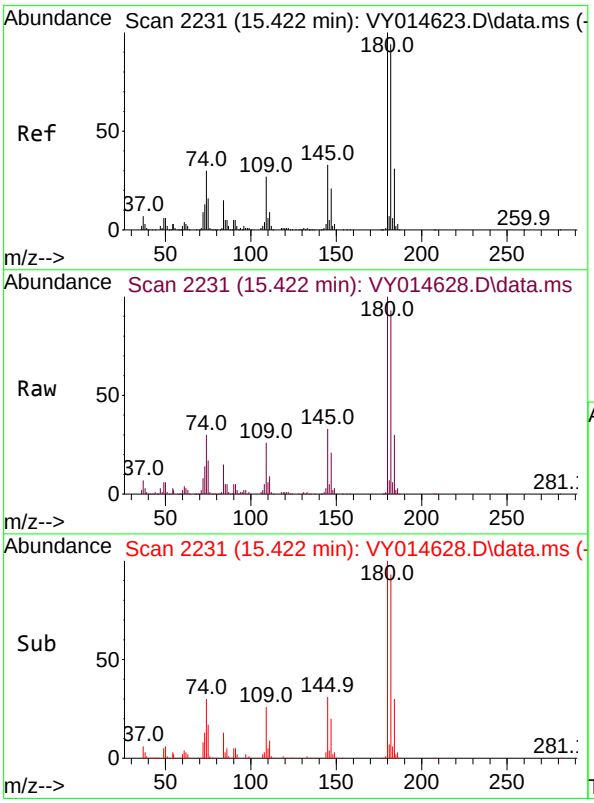
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.8	16.2
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Manual Integrations APPROVED

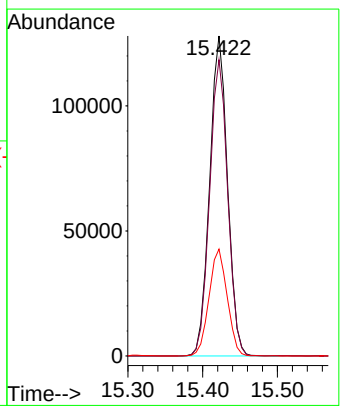
Reviewed By :John Carlone 07/14/2023
Supervised By :Mahesh Dadoda 07/14/2023



#96
1,2,3-Trichlorobenzene
Concen: 50.895 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014628.D
Acq: 13 Jul 2023 15:11

Tgt Ion:180 Resp: 212903

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	141.8
145	34.1	15.4	46.2



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	95	-0.01
2	T	Dichlorodifluoromethane	0.407	0.370	9.1	90	0.00
3	P	Chloromethane	0.458	0.445	2.8	94	0.00
4	C	Vinyl Chloride	0.512	0.499	2.5#	92	0.00
5	T	Bromomethane	0.338	0.333	1.5	94	0.00
6	T	Chloroethane	0.320	0.315	1.6	92	0.00
7	T	Trichlorofluoromethane	0.860	0.851	1.0	92	0.00
8	T	Diethyl Ether	0.320	0.318	0.6	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.527	0.520	1.3	91	0.00
10	T	Methyl Iodide	0.493	0.549	-11.4	96	-0.01
11	T	Tert butyl alcohol	0.125	0.101	19.2	86	0.00
12	CM	1,1-Dichloroethene	0.492	0.484	1.6#	91	0.00
13	T	Acrolein	0.060	0.050	16.7	87	0.00
14	T	Allyl chloride	0.874	0.849	2.9	91	0.00
15	T	Acrylonitrile	0.176	0.173	1.7	92	-0.01
16	T	Acetone	0.181	0.187	-3.3	91	0.00
17	T	Carbon Disulfide	1.410	1.324	6.1	90	0.00
18	T	Methyl Acetate	0.693	0.666	3.9	90	-0.01
19	T	Methyl tert-butyl Ether	1.599	1.587	0.8	92	-0.01
20	T	Methylene Chloride	0.656	0.594	9.5	93	0.00
21	T	trans-1,2-Dichloroethene	0.559	0.546	2.3	92	0.00
22	T	Diisopropyl ether	1.777	1.767	0.6	92	0.00
23	T	Vinyl Acetate	1.064	1.052	1.1	91	0.00
24	P	1,1-Dichloroethane	1.017	1.004	1.3	91	0.00
25	T	2-Butanone	0.264	0.258	2.3	91	0.00
26	T	2,2-Dichloropropane	0.969	0.972	-0.3	94	-0.01
27	T	cis-1,2-Dichloroethene	0.650	0.645	0.8	92	0.00
28	T	Bromochloromethane	0.438	0.412	5.9	93	0.00
29	T	Tetrahydrofuran	0.163	0.154	5.5	90	-0.01
30	C	Chloroform	1.049	1.037	1.1#	92	0.00
31	T	Cyclohexane	0.946	0.873	7.7	91	0.00
32	T	1,1,1-Trichloroethane	0.944	0.937	0.7	93	0.00
33	S	1,2-Dichloroethane-d4	0.570	0.532	6.7	90	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
35	S	Dibromofluoromethane	0.318	0.304	4.4	90	-0.01
36	T	1,1-Dichloropropene	0.476	0.472	0.8	91	0.00
37	T	Ethyl Acetate	0.328	0.316	3.7	93	0.00
38	T	Carbon Tetrachloride	0.503	0.500	0.6	91	-0.01
39	T	Methylcyclohexane	0.620	0.605	2.4	90	0.00
40	TM	Benzene	1.354	1.354	0.0	92	0.00
41	T	Methacrylonitrile	0.169	0.167	1.2	95	-0.01
42	TM	1,2-Dichloroethane	0.429	0.429	0.0	92	0.00
43	T	Isopropyl Acetate	0.624	0.609	2.4	91	0.00
44	TM	Trichloroethene	0.379	0.379	0.0	92	0.00
45	C	1,2-Dichloropropane	0.353	0.354	-0.3#	92	0.00
46	T	Dibromomethane	0.214	0.212	0.9	91	0.00
47	T	Bromodichloromethane	0.505	0.512	-1.4	93	0.00
48	T	Methyl methacrylate	0.281	0.276	1.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.003	0.0	91	0.00
50	S	Toluene-d8	1.173	1.103	6.0	90	0.00
51	T	4-Methyl-2-Pentanone	0.328	0.321	2.1	91	0.00
52	CM	Toluene	0.866	0.864	0.2#	92	0.00
53	T	t-1,3-Dichloropropene	0.553	0.554	-0.2	92	0.00
54	T	cis-1,3-Dichloropropene	0.601	0.601	0.0	92	0.00
55	T	1,1,2-Trichloroethane	0.299	0.303	-1.3	93	0.00
56	T	Ethyl methacrylate	0.456	0.455	0.2	91	0.00
57	T	1,3-Dichloropropane	0.515	0.515	0.0	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.212	0.5	94	0.00
59	T	2-Hexanone	0.239	0.239	0.0	92	0.00
60	T	Dibromochloromethane	0.366	0.367	-0.3	91	0.00
61	T	1,2-Dibromoethane	0.298	0.298	0.0	91	0.00
62	S	4-Bromofluorobenzene	0.450	0.423	6.0	91	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.402	0.391	2.7	90	0.00
65	PM	Chlorobenzene	1.065	1.068	-0.3	92	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.412	-2.5	93	0.00
67	C	Ethyl Benzene	1.924	1.919	0.3#	91	0.00
68	T	m/p-Xylenes	0.734	0.736	-0.3	92	0.00
69	T	o-Xylene	0.715	0.721	-0.8	92	0.00
70	T	Styrene	1.206	1.216	-0.8	91	0.00
71	P	Bromoform	0.272	0.274	-0.7	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	3.915	3.876	1.0	93	0.00
74	T	N-amyl acetate	1.311	1.288	1.8	91	0.00
75	P	1,1,2,2-Tetrachloroethane	0.893	0.870	2.6	92	0.00
76	T	1,2,3-Trichloropropane	0.631	0.573	9.2	86	0.00
77	T	Bromobenzene	0.894	0.895	-0.1	92	0.00
78	T	n-propylbenzene	4.718	4.669	1.0	91	0.00
79	T	2-Chlorotoluene	2.717	2.688	1.1	91	0.00
80	T	1,3,5-Trimethylbenzene	3.270	3.247	0.7	92	0.00
81	T	trans-1,4-Dichloro-2-butene	0.326	0.323	0.9	91	0.00
82	T	4-Chlorotoluene	2.799	2.766	1.2	91	0.00
83	T	tert-Butylbenzene	2.900	2.896	0.1	92	0.00
84	T	1,2,4-Trimethylbenzene	3.209	3.194	0.5	92	0.00
85	T	sec-Butylbenzene	4.255	4.239	0.4	92	0.00
86	T	p-Isopropyltoluene	3.474	3.507	-0.9	92	0.00
87	T	1,3-Dichlorobenzene	1.739	1.738	0.1	92	0.00
88	T	1,4-Dichlorobenzene	1.743	1.751	-0.5	93	0.00
89	T	n-Butylbenzene	3.380	3.387	-0.2	91	0.00
90	T	Hexachloroethane	0.714	0.709	0.7	91	0.00
91	T	1,2-Dichlorobenzene	1.594	1.602	-0.5	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.171	0.163	4.7	90	0.00
93	T	1,2,4-Trichlorobenzene	1.012	1.036	-2.4	92	0.00
94	T	Hexachlorobutadiene	0.556	0.568	-2.2	92	0.00
95	T	Naphthalene	2.357	2.356	0.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.899	0.915	-1.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	95	-0.01
2	T	Dichlorodifluoromethane	50.000	45.380	9.2	90	0.00
3	P	Chloromethane	50.000	48.556	2.9	94	0.00
4	C	Vinyl Chloride	50.000	48.793	2.4#	92	0.00
5	T	Bromomethane	50.000	49.264	1.5	94	0.00
6	T	Chloroethane	50.000	49.285	1.4	92	0.00
7	T	Trichlorofluoromethane	50.000	49.515	1.0	92	0.00
8	T	Diethyl Ether	50.000	49.720	0.6	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.311	1.4	91	0.00
10	T	Methyl Iodide	50.000	49.175	1.7	96	-0.01
11	T	Tert butyl alcohol	250.000	209.229	16.3	86	0.00
12	CM	1,1-Dichloroethene	50.000	49.151	1.7#	91	0.00
13	T	Acrolein	250.000	210.259	15.9	87	0.00
14	T	Allyl chloride	50.000	48.542	2.9	91	0.00
15	T	Acrylonitrile	250.000	245.842	1.7	92	-0.01
16	T	Acetone	250.000	258.614	-3.4	91	0.00
17	T	Carbon Disulfide	50.000	46.946	6.1	90	0.00
18	T	Methyl Acetate	50.000	48.037	3.9	90	-0.01
19	T	Methyl tert-butyl Ether	50.000	49.627	0.7	92	-0.01
20	T	Methylene Chloride	50.000	50.710	-1.4	93	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.873	2.3	92	0.00
22	T	Diisopropyl ether	50.000	49.716	0.6	92	0.00
23	T	Vinyl Acetate	250.000	247.218	1.1	91	0.00
24	P	1,1-Dichloroethane	50.000	49.375	1.3	91	0.00
25	T	2-Butanone	250.000	244.246	2.3	91	0.00
26	T	2,2-Dichloropropane	50.000	50.124	-0.2	94	-0.01
27	T	cis-1,2-Dichloroethene	50.000	49.595	0.8	92	0.00
28	T	Bromochloromethane	50.000	47.012	6.0	93	0.00
29	T	Tetrahydrofuran	250.000	236.286	5.5	90	-0.01
30	C	Chloroform	50.000	49.446	1.1#	92	0.00
31	T	Cyclohexane	50.000	46.126	7.7	91	0.00
32	T	1,1,1-Trichloroethane	50.000	49.612	0.8	93	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.669	6.7	90	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	95	0.00
35	S	Dibromofluoromethane	50.000	47.811	4.4	90	-0.01
36	T	1,1-Dichloropropene	50.000	49.538	0.9	91	0.00
37	T	Ethyl Acetate	50.000	48.288	3.4	93	0.00
38	T	Carbon Tetrachloride	50.000	49.709	0.6	91	-0.01
39	T	Methylcyclohexane	50.000	48.820	2.4	90	0.00
40	TM	Benzene	50.000	50.008	-0.0	92	0.00
41	T	Methacrylonitrile	50.000	49.489	1.0	95	-0.01
42	TM	1,2-Dichloroethane	50.000	50.028	-0.1	92	0.00
43	T	Isopropyl Acetate	50.000	48.784	2.4	91	0.00
44	TM	Trichloroethene	50.000	50.018	-0.0	92	0.00
45	C	1,2-Dichloropropane	50.000	50.134	-0.3#	92	0.00
46	T	Dibromomethane	50.000	49.509	1.0	91	0.00
47	T	Bromodichloromethane	50.000	50.646	-1.3	93	0.00
48	T	Methyl methacrylate	50.000	49.197	1.6	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	994.793	0.5	91	0.00
50	S	Toluene-d8	50.000	47.005	6.0	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	245.195	1.9	91	0.00
52	CM	Toluene	50.000	49.869	0.3#	92	0.00
53	T	t-1,3-Dichloropropene	50.000	50.133	-0.3	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.008	-0.0	92	0.00
55	T	1,1,2-Trichloroethane	50.000	50.644	-1.3	93	0.00
56	T	Ethyl methacrylate	50.000	49.914	0.2	91	0.00
57	T	1,3-Dichloropropane	50.000	49.940	0.1	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	249.241	0.3	94	0.00
59	T	2-Hexanone	250.000	249.743	0.1	92	0.00
60	T	Dibromochloromethane	50.000	50.064	-0.1	91	0.00
61	T	1,2-Dibromoethane	50.000	49.928	0.1	91	0.00
62	S	4-Bromofluorobenzene	50.000	47.022	6.0	91	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	48.653	2.7	90	0.00
65	PM	Chlorobenzene	50.000	50.128	-0.3	92	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.326	-2.7	93	0.00
67	C	Ethyl Benzene	50.000	49.873	0.3#	91	0.00
68	T	m/p-Xylenes	100.000	100.250	-0.3	92	0.00
69	T	o-Xylene	50.000	50.370	-0.7	92	0.00
70	T	Styrene	50.000	50.422	-0.8	91	0.00
71	P	Bromoform	50.000	50.398	-0.8	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	49.498	1.0	93	0.00
74	T	N-amyl acetate	50.000	49.128	1.7	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.734	2.5	92	0.00
76	T	1,2,3-Trichloropropane	50.000	45.340	9.3	86	0.00
77	T	Bromobenzene	50.000	50.061	-0.1	92	0.00
78	T	n-propylbenzene	50.000	49.489	1.0	91	0.00
79	T	2-Chlorotoluene	50.000	49.462	1.1	91	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.654	0.7	92	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.517	1.0	91	0.00
82	T	4-Chlorotoluene	50.000	49.419	1.2	91	0.00
83	T	tert-Butylbenzene	50.000	49.928	0.1	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.771	0.5	92	0.00
85	T	sec-Butylbenzene	50.000	49.821	0.4	92	0.00
86	T	p-Isopropyltoluene	50.000	50.483	-1.0	92	0.00
87	T	1,3-Dichlorobenzene	50.000	49.972	0.1	92	0.00
88	T	1,4-Dichlorobenzene	50.000	50.219	-0.4	93	0.00
89	T	n-Butylbenzene	50.000	50.112	-0.2	91	0.00
90	T	Hexachloroethane	50.000	49.714	0.6	91	0.00
91	T	1,2-Dichlorobenzene	50.000	50.261	-0.5	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.634	4.7	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.193	-2.4	92	0.00
94	T	Hexachlorobutadiene	50.000	51.119	-2.2	92	0.00
95	T	Naphthalene	50.000	49.992	0.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014628.D
Acq On : 13 Jul 2023 15:11
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY071323

Quant Time: Jul 14 04:24:50 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.895	-1.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_N Calibration Date/Time: 07/14/2023 09:12

Lab File ID: VN078508.D Init. Calib. Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:21 14:46

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.613	0.519		-15.33	20
Chloromethane	0.666	0.662	0.1	-0.6	20
Vinyl Chloride	0.862	0.795		-7.77	20
Bromomethane	0.616	0.521		-15.42	20
Chloroethane	0.583	0.519		-10.98	20
Trichlorofluoromethane	1.030	0.958		-6.99	20
1,1,2-Trichlorotrifluoroethane	0.545	0.527		-3.3	20
1,1-Dichloroethene	0.528	0.486		-7.95	20
Acetone	0.209	0.210		0.48	20
Carbon Disulfide	1.526	1.292		-15.33	20
Methyl tert-butyl Ether	1.738	1.682		-3.22	20
Methyl Acetate	0.884	0.808		-8.6	20
Methylene Chloride	0.674	0.592		-12.17	20
trans-1,2-Dichloroethene	0.595	0.552		-7.23	20
1,1-Dichloroethane	1.088	1.033	0.1	-5.05	20
Cyclohexane	0.906	0.825		-8.94	20
2-Butanone	0.329	0.320		-2.74	20
Carbon Tetrachloride	0.533	0.529		-0.75	20
cis-1,2-Dichloroethene	0.688	0.660		-4.07	20
Bromochloromethane	0.512	0.509		-0.59	20
Chloroform	1.132	1.126		-0.53	20
1,1,1-Trichloroethane	1.015	0.999		-1.58	20
Methylcyclohexane	0.447	0.451		0.89	20
Benzene	1.452	1.430		-1.51	20
1,2-Dichloroethane	0.494	0.491		-0.61	20
Trichloroethene	0.391	0.375		-4.09	20
1,2-Dichloropropane	0.368	0.366		-0.54	20
Bromodichloromethane	0.519	0.535		3.08	20
4-Methyl-2-Pentanone	0.400	0.408		2	20
Toluene	0.900	0.925		2.78	20
t-1,3-Dichloropropene	0.532	0.560		5.26	20
cis-1,3-Dichloropropene	0.567	0.594		4.76	20
1,1,2-Trichloroethane	0.355	0.359		1.13	20
2-Hexanone	0.284	0.290		2.11	20
Dibromochloromethane	0.391	0.408		4.35	20
1,2-Dibromoethane	0.365	0.367		0.55	20
Tetrachloroethene	0.376	0.380		1.06	20
Chlorobenzene	1.118	1.098	0.3	-1.79	20
Ethyl Benzene	1.889	1.932		2.28	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_N Calibration Date/Time: 07/14/2023 09:12

Lab File ID: VN078508.D Init. Calib. Date(s): 07/10/2023 07/10/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:21 14:46

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.698	0.737		5.59	20
o-Xylene	0.705	0.722		2.41	20
Styrene	1.104	1.170		5.98	20
Bromoform	0.291	0.293	0.1	0.69	20
Isopropylbenzene	4.698	4.239		-9.77	20
1,1,2,2-Tetrachloroethane	1.586	1.294	0.3	-18.41	20
n-propylbenzene	5.024	4.827		-3.92	20
1,3,5-Trimethylbenzene	3.712	3.463		-6.71	20
tert-Butylbenzene	3.152	2.876		-8.76	20
1,2,4-Trimethylbenzene	3.606	3.424		-5.05	20
sec-Butylbenzene	3.984	3.700		-7.13	20
p-Isopropyltoluene	3.199	3.034		-5.16	20
1,3-Dichlorobenzene	1.804	1.728		-4.21	20
1,4-Dichlorobenzene	1.817	1.691		-6.93	20
n-Butylbenzene	2.289	2.295		0.26	20
1,2-Dichlorobenzene	1.795	1.683		-6.24	20
1,2-Dibromo-3-Chloropropane	0.262	0.207		-20.99	20
1,2,4-Trichlorobenzene	0.573	0.523		-8.73	20
1,2,3-Trichlorobenzene	0.659	0.571		-13.35	20
1,2-Dichloroethane-d4	0.670	0.687		2.54	20
Dibromofluoromethane	0.339	0.357		5.31	20
Toluene-d8	1.282	1.330		3.74	20
4-Bromofluorobenzene	0.395	0.427		8.1	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	480719	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	810635	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	725667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	308560	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	330474	51.280	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.560%			
35) Dibromofluoromethane	8.171	113	289207	52.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.120%			
50) Toluene-d8	10.571	98	1077791	51.847	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.700%			
62) 4-Bromofluorobenzene	12.853	95	346188	54.065	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	249578	42.345	ug/l	98
3) Chloromethane	2.371	50	318427	49.707	ug/l	100
4) Vinyl Chloride	2.518	62	382203	46.121	ug/l	95
5) Bromomethane	2.948	94	250537	47.555	ug/l	98
6) Chloroethane	3.118	64	249519	49.766	ug/l	97
7) Trichlorofluoromethane	3.501	101	460487	46.485	ug/l	100
8) Diethyl Ether	3.971	74	155858	47.223	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.383	101	253194	48.284	ug/l	96
10) Methyl Iodide	4.595	142	342049	47.468	ug/l	94
11) Tert butyl alcohol	5.530	59	221675	223.065	ug/l	100
12) 1,1-Dichloroethene	4.354	96	233706	46.074	ug/l	93
13) Acrolein	4.189	56	213578	218.442	ug/l	95
14) Allyl chloride	5.030	41	319864	46.148	ug/l	95
15) Acrylonitrile	5.730	53	595176	237.039	ug/l	99
16) Acetone	4.436	43	505950	252.033	ug/l	94
17) Carbon Disulfide	4.718	76	621160	42.349	ug/l	98
18) Methyl Acetate	5.036	43	388183	45.679	ug/l	91
19) Methyl tert-butyl Ether	5.806	73	808505	48.376	ug/l	97
20) Methylene Chloride	5.289	84	284753	49.438	ug/l	93
21) trans-1,2-Dichloroethene	5.795	96	265399	46.430	ug/l	89
22) Diisopropyl ether	6.683	45	784711	50.561	ug/l	95
23) Vinyl Acetate	6.612	43	2430298	246.315	ug/l #	91
24) 1,1-Dichloroethane	6.577	63	496423	47.469	ug/l	98
25) 2-Butanone	7.489	43	768254	243.115	ug/l #	86
26) 2,2-Dichloropropane	7.500	77	437043	51.096	ug/l	98
27) cis-1,2-Dichloroethene	7.495	96	317275	47.981	ug/l	92
28) Bromochloromethane	7.818	49	244708	49.680	ug/l	94
29) Tetrahydrofuran	7.847	42	491967	237.262	ug/l	84
30) Chloroform	7.971	83	541194	49.707	ug/l	95
31) Cyclohexane	8.265	56	396597	45.536	ug/l	89
32) 1,1,1-Trichloroethane	8.177	97	480419	49.215	ug/l	97
36) 1,1-Dichloropropene	8.377	75	384173	48.350	ug/l	98
37) Ethyl Acetate	7.571	43	313819	47.379	ug/l	95
38) Carbon Tetrachloride	8.371	117	428854	49.661	ug/l	98
39) Methylcyclohexane	9.606	83	365294	50.367	ug/l	93
40) Benzene	8.612	78	1159505	49.258	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	164813	48.810	ug/l		92
42) 1,2-Dichloroethane	8.677	62	398069	49.717	ug/l		99
43) Isopropyl Acetate	8.694	43	543210	49.813	ug/l		95
44) Trichloroethene	9.359	130	304006	47.918	ug/l		94
45) 1,2-Dichloropropane	9.630	63	296940	49.806	ug/l		97
46) Dibromomethane	9.718	93	215263	51.300	ug/l		94
47) Bromodichloromethane	9.894	83	433774	51.569	ug/l		99
48) Methyl methacrylate	9.688	41	254563	50.387	ug/l		89
49) 1,4-Dioxane	9.700	88	108741	986.961	ug/l		92
51) 4-Methyl-2-Pentanone	10.453	43	1654865	255.130	ug/l		93
52) Toluene	10.636	92	750064	51.412	ug/l		97
53) t-1,3-Dichloropropene	10.841	75	453850	52.667	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	481148	52.381	ug/l		96
55) 1,1,2-Trichloroethane	11.024	97	290614	50.558	ug/l		96
56) Ethyl methacrylate	10.883	69	414908	51.637	ug/l		91
57) 1,3-Dichloropropane	11.171	76	480555	49.169	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	795943	277.960	ug/l		92
59) 2-Hexanone	11.200	43	1177352	255.394	ug/l		92
60) Dibromochloromethane	11.365	129	330984	52.158	ug/l		98
61) 1,2-Dibromoethane	11.477	107	297464	50.236	ug/l		98
64) Tetrachloroethene	11.112	164	275866	50.564	ug/l		98
65) Chlorobenzene	11.900	112	797048	49.139	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.965	131	308901	49.504	ug/l		96
67) Ethyl Benzene	11.971	91	1401996	51.135	ug/l		98
68) m/p-Xylenes	12.077	106	1069668	105.519	ug/l		97
69) o-Xylene	12.406	106	524115	51.188	ug/l		98
70) Styrene	12.418	104	849156	53.010	ug/l		97
71) Bromoform	12.582	173	212874	50.372	ug/l	#	99
73) Isopropylbenzene	12.700	105	1308073	45.116	ug/l		100
74) N-amyl acetate	12.500	43	428884	42.924	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.941	83	399409	49.277	ug/l		99
76) 1,2,3-Trichloropropane	13.000	75	324617m	43.524	ug/l		
77) Bromobenzene	12.982	156	314829	49.930	ug/l		94
78) n-propylbenzene	13.041	91	1489467	48.036	ug/l		100
79) 2-Chlorotoluene	13.129	91	917113	45.156	ug/l		97
80) 1,3,5-Trimethylbenzene	13.177	105	1068406	46.638	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	125190	44.109	ug/l		94
82) 4-Chlorotoluene	13.229	91	878939	46.390	ug/l		98
83) tert-Butylbenzene	13.441	119	887413	45.626	ug/l		97
84) 1,2,4-Trimethylbenzene	13.488	105	1056446	47.477	ug/l		99
85) sec-Butylbenzene	13.624	105	1141692	46.440	ug/l		99
86) p-Isopropyltoluene	13.735	119	936237	47.428	ug/l		98
87) 1,3-Dichlorobenzene	13.741	146	533278	47.911	ug/l		97
88) 1,4-Dichlorobenzene	13.818	146	521825	46.545	ug/l		99
89) n-Butylbenzene	14.059	91	708203	50.141	ug/l		98
90) Hexachloroethane	14.341	117	183271	50.521	ug/l		86
91) 1,2-Dichlorobenzene	14.112	146	519161	46.869	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	63751	45.767	ug/l		93
93) 1,2,4-Trichlorobenzene	15.400	180	161276	45.620	ug/l		96
94) Hexachlorobutadiene	15.506	225	88385	48.178	ug/l		99
95) Naphthalene	15.647	128	489537	40.506	ug/l		100
96) 1,2,3-Trichlorobenzene	15.847	180	176290	43.368	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

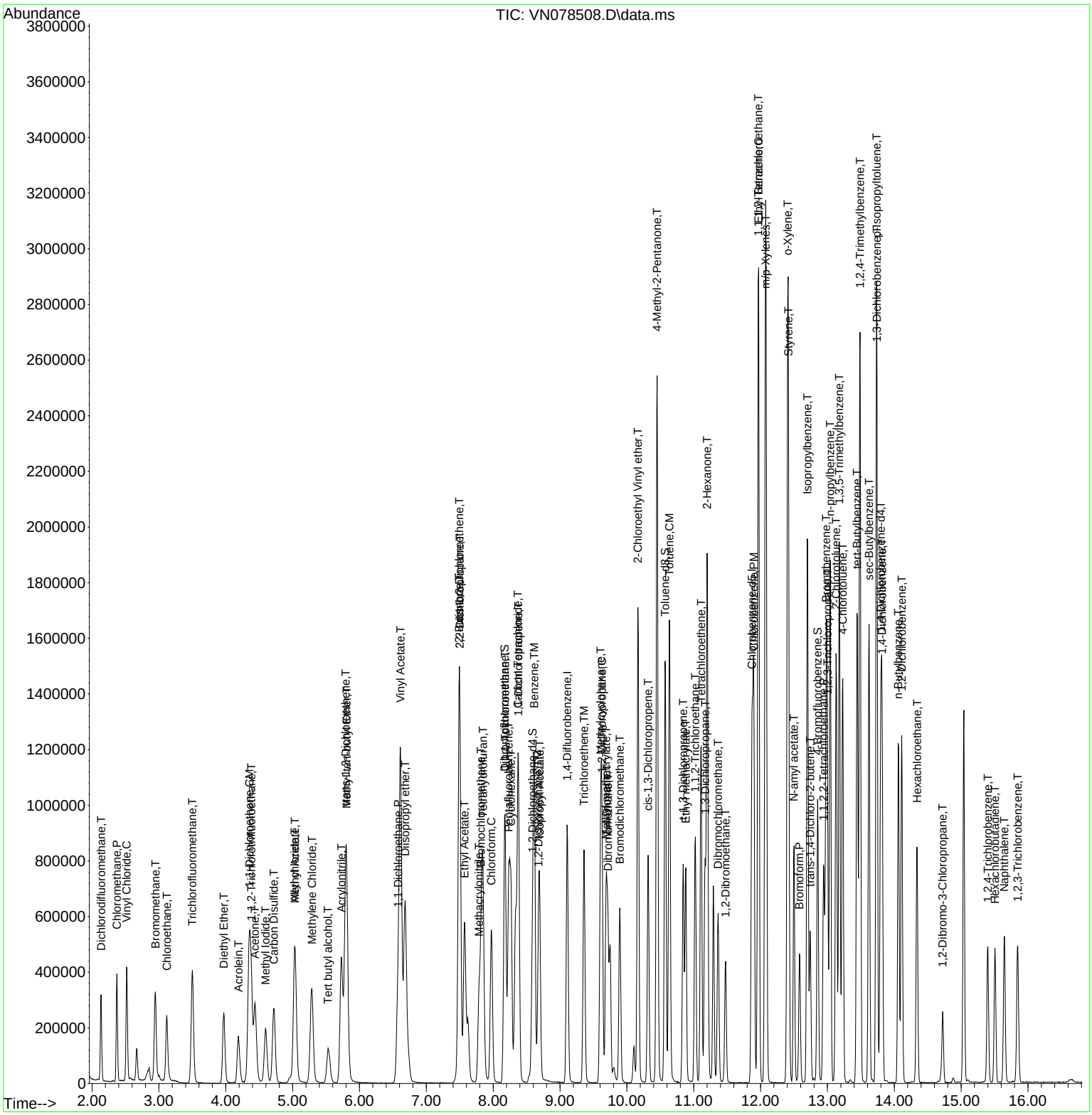
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Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

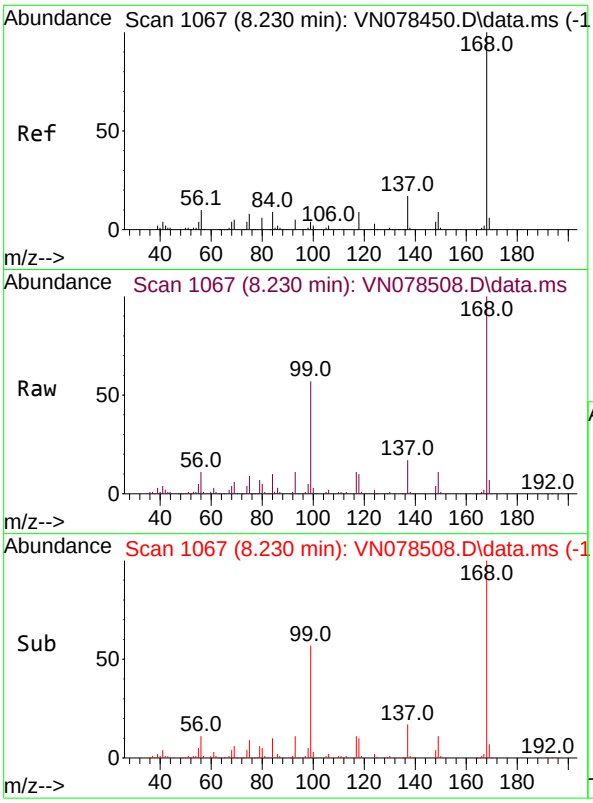
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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
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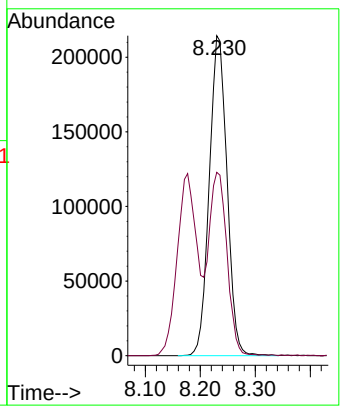




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:168 Resp: 48071

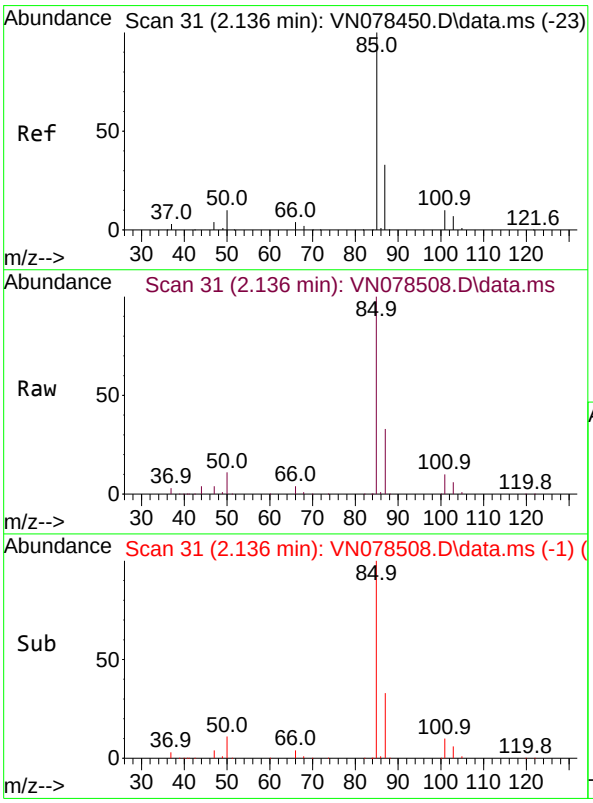
Ion	Ratio	Lower	Upper
168	100		
99	57.3	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

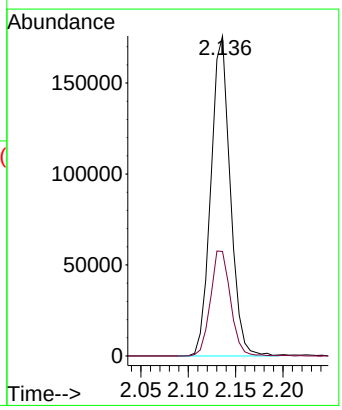
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

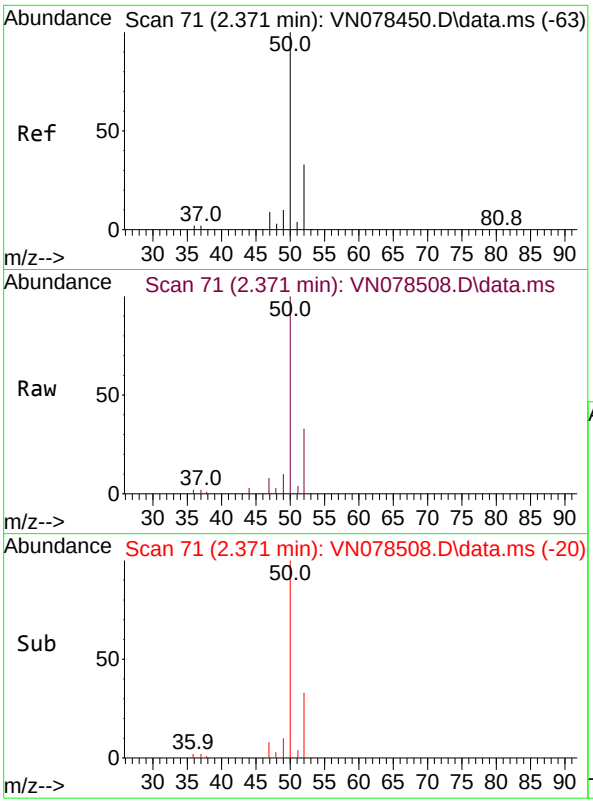


#2
Dichlorodifluoromethane
Concen: 42.345 ug/l
RT: 2.136 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 85 Resp: 249578

Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.8	47.4

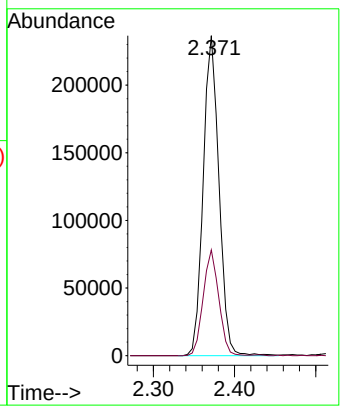




#3
Chloromethane
Concen: 49.707 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 50 Resp: 31842

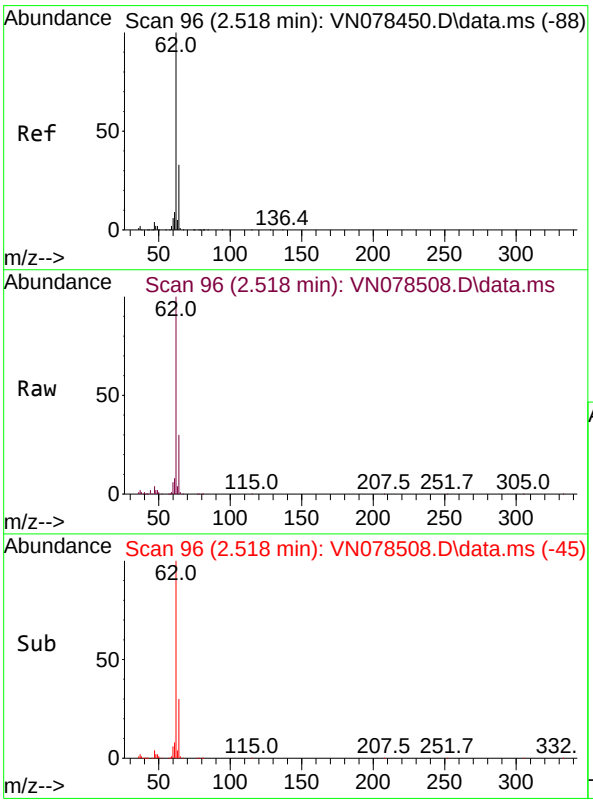
Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

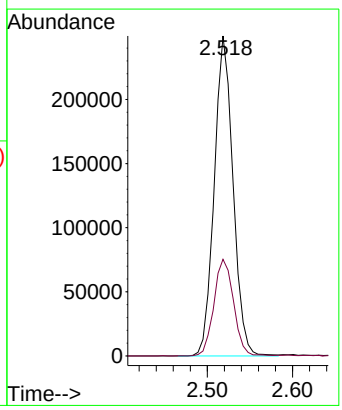
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

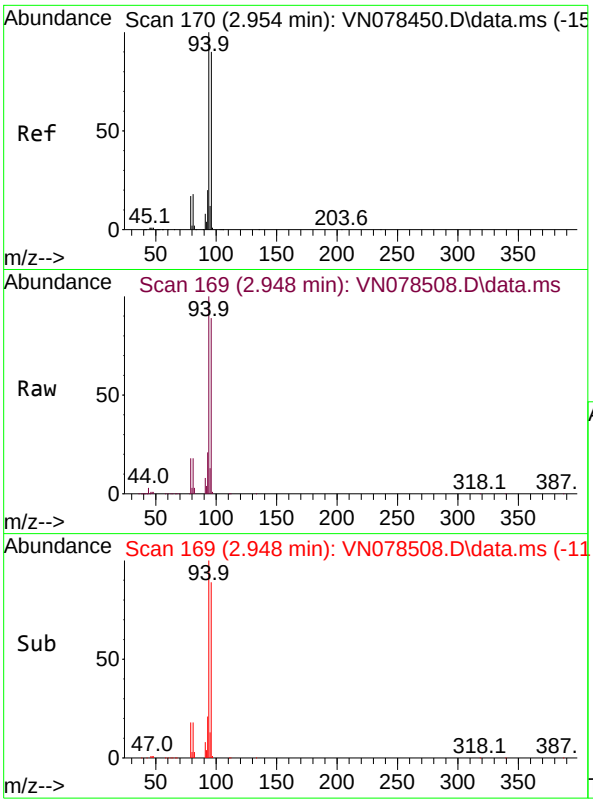


#4
Vinyl Chloride
Concen: 46.121 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 62 Resp: 382203

Ion	Ratio	Lower	Upper
62	100		
64	30.1	26.2	39.2

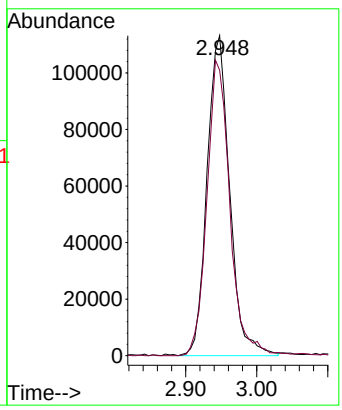




#5
Bromomethane
Concen: 47.555 ug/l
RT: 2.948 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 94 Resp: 25053

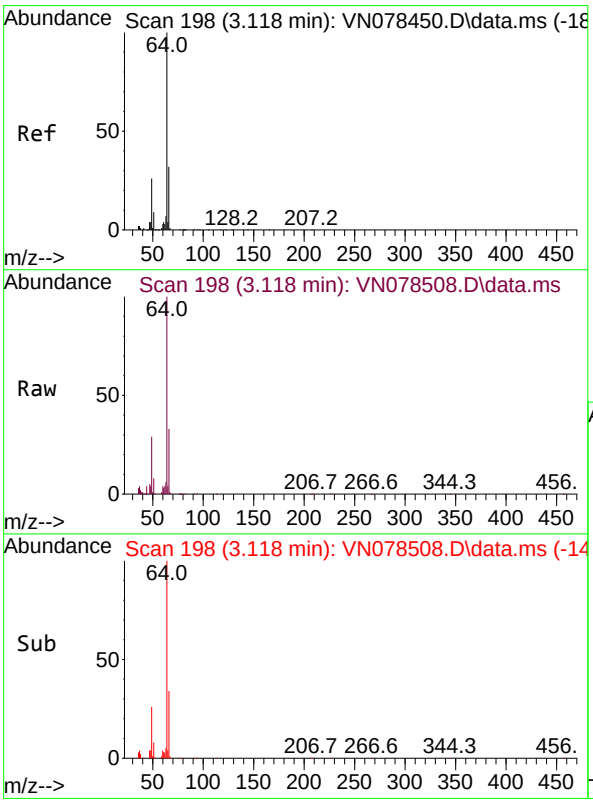
Ion	Ratio	Lower	Upper
94	100		
96	89.2	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

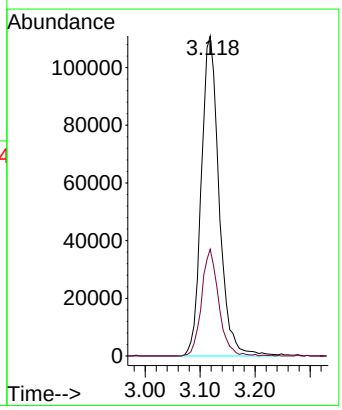
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

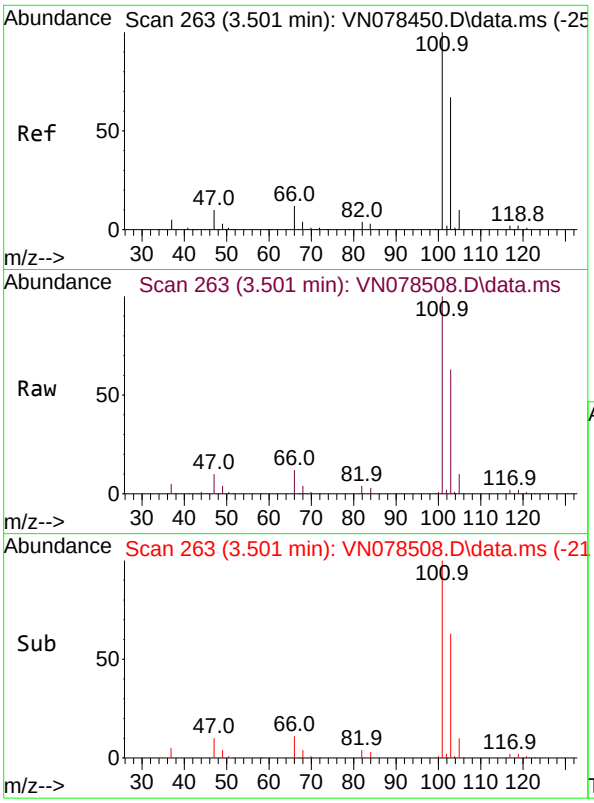


#6
Chloroethane
Concen: 49.766 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 64 Resp: 249519

Ion	Ratio	Lower	Upper
64	100		
66	33.4	25.4	38.2





#7
Trichlorofluoromethane
Concen: 46.485 ug/l
RT: 3.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

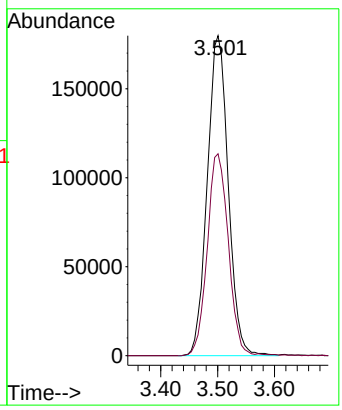
Tgt Ion:101 Resp: 46048

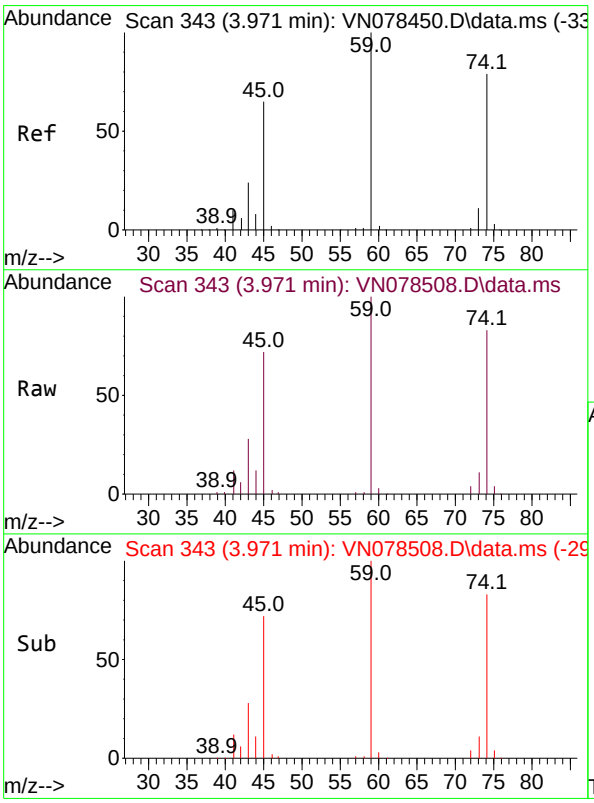
Ion	Ratio	Lower	Upper
101	100		
103	63.1	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

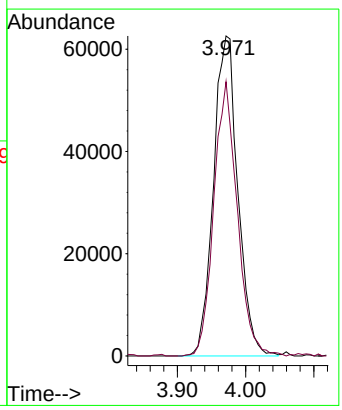


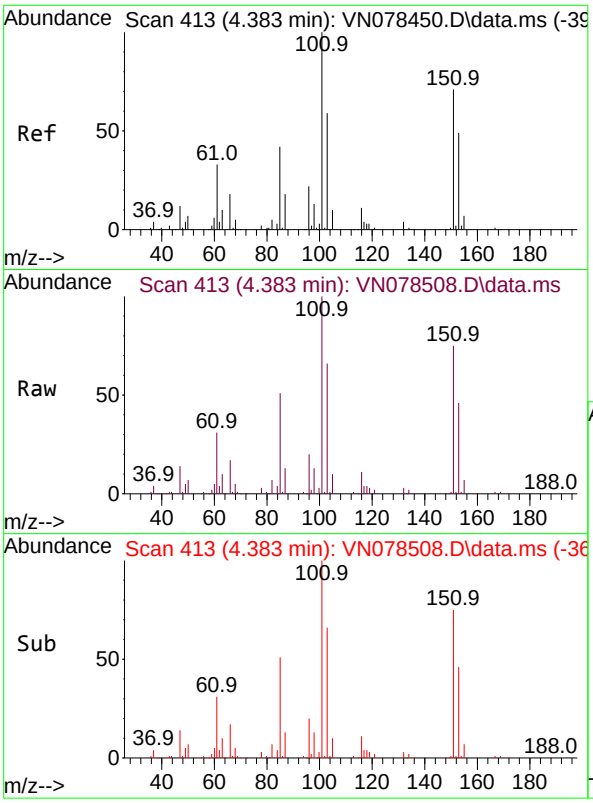


#8
Diethyl Ether
Concen: 47.223 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 74 Resp: 155858

Ion	Ratio	Lower	Upper
74	100		
45	82.6	34.4	103.3

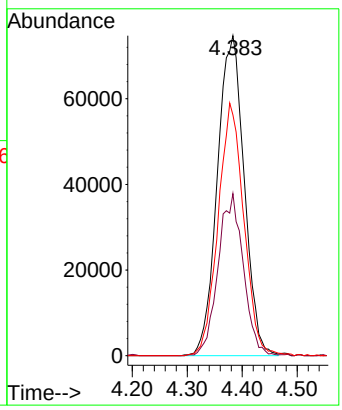




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.284 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:101 Resp: 25319

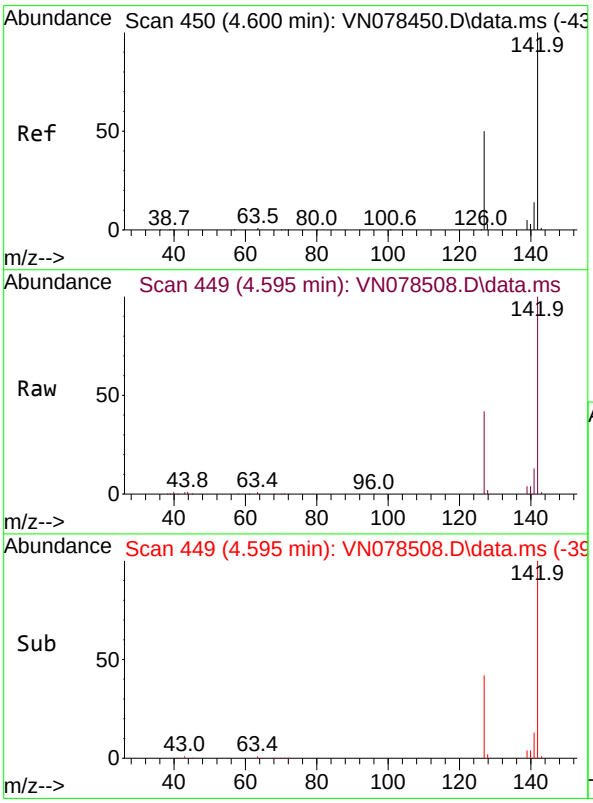
Ion	Ratio	Lower	Upper
101	100		
85	47.4	36.6	55.0
151	75.7	57.6	86.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

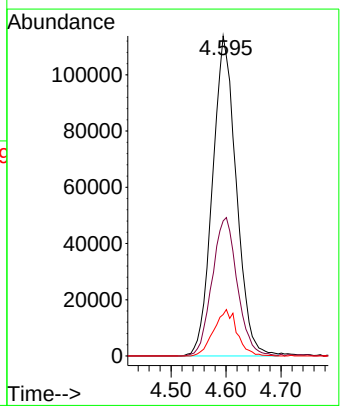
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

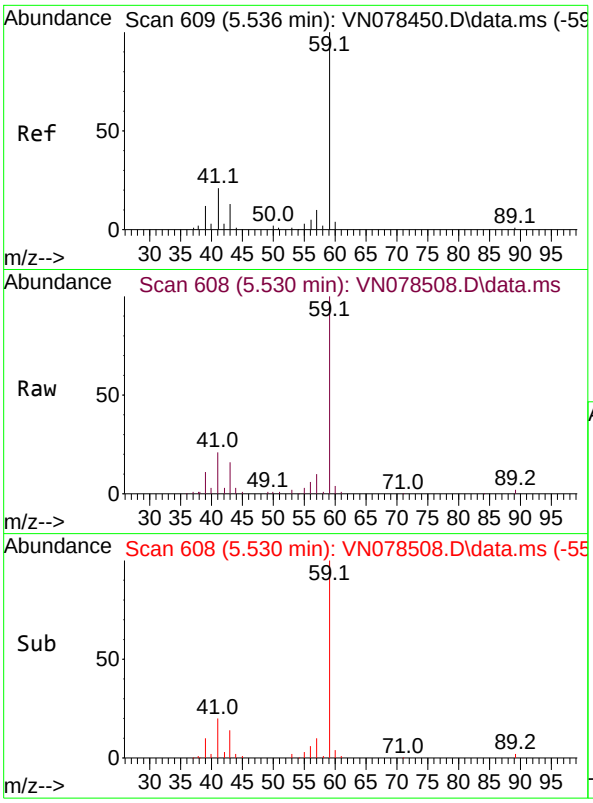


#10
Methyl Iodide
Concen: 47.468 ug/l
RT: 4.595 min Scan# 449
Delta R.T. -0.005 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:142 Resp: 342049

Ion	Ratio	Lower	Upper
142	100		
127	42.2	37.6	56.4
141	12.9	11.4	17.0

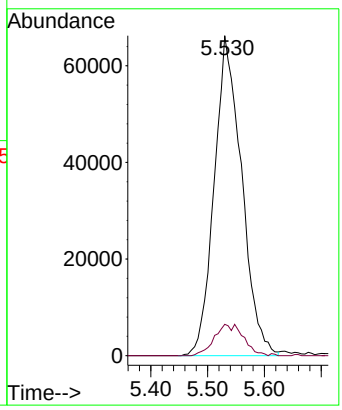




#11
Tert butyl alcohol
Concen: 223.065 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 59 Resp: 22167

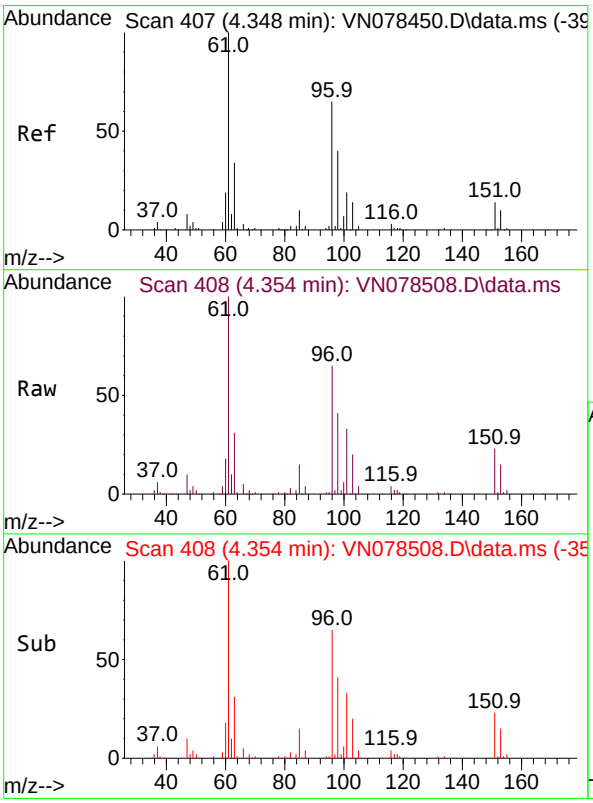
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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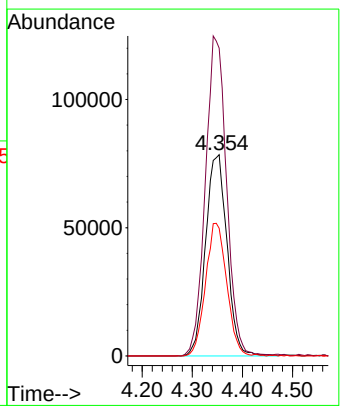
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

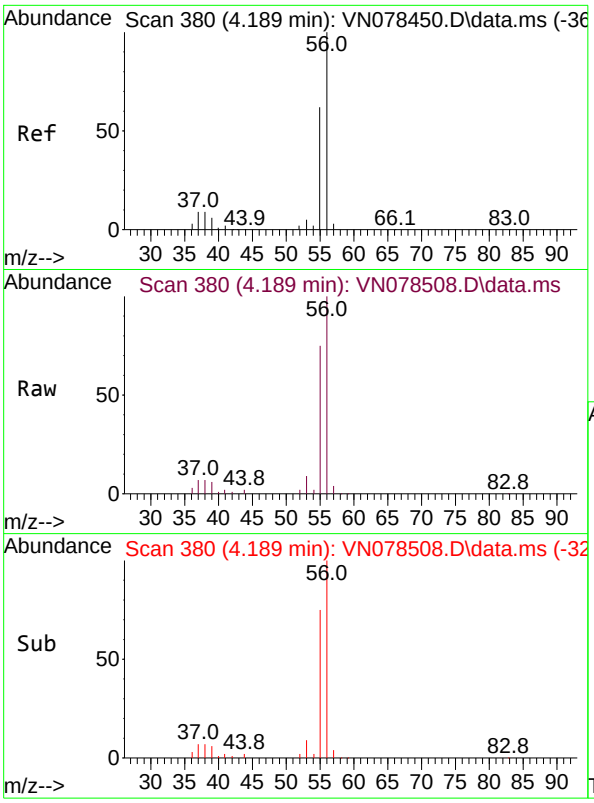


#12
1,1-Dichloroethene
Concen: 46.074 ug/l
RT: 4.354 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 96 Resp: 233706

Ion	Ratio	Lower	Upper
96	100		
61	152.7	112.7	169.1
98	63.4	51.2	76.8

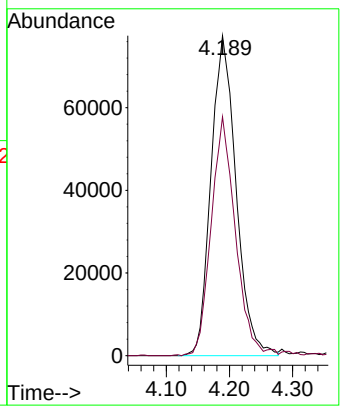




#13
Acrolein
Concen: 218.442 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 56 Resp: 21357

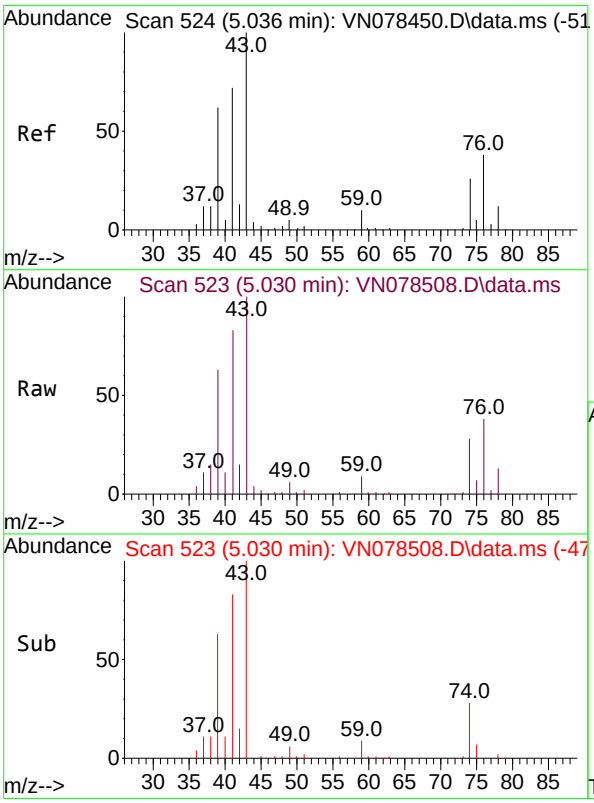
Ion	Ratio	Lower	Upper
56	100		
55	72.2	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

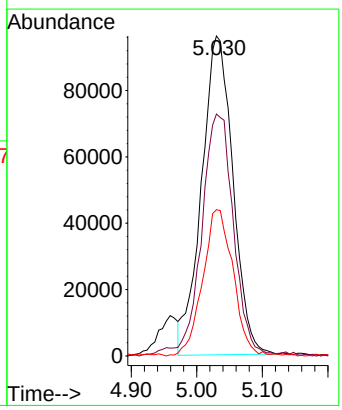
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

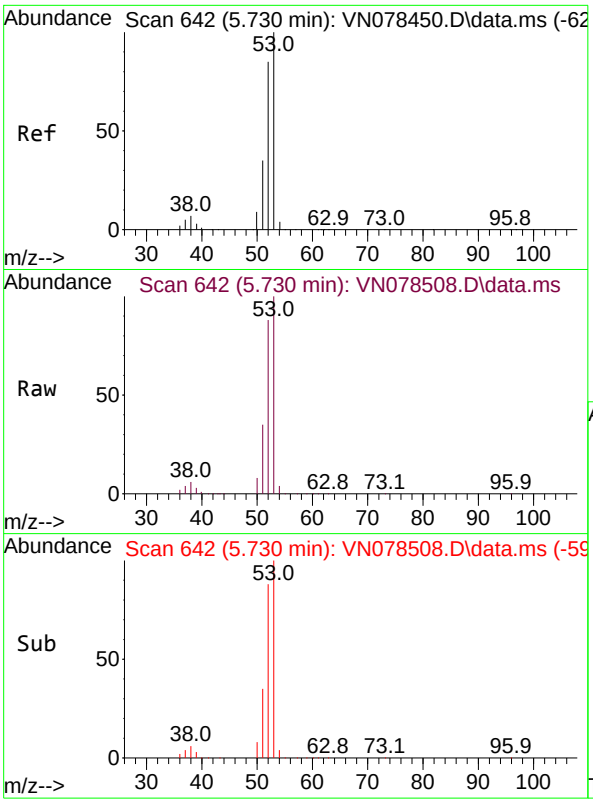


#14
Allyl chloride
Concen: 46.148 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 41 Resp: 319864

Ion	Ratio	Lower	Upper
41	100		
39	77.5	58.8	88.2
76	44.5	39.1	58.7

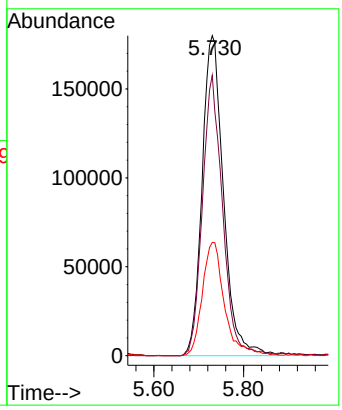




#15
Acrylonitrile
Concen: 237.039 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 53 Resp: 59517

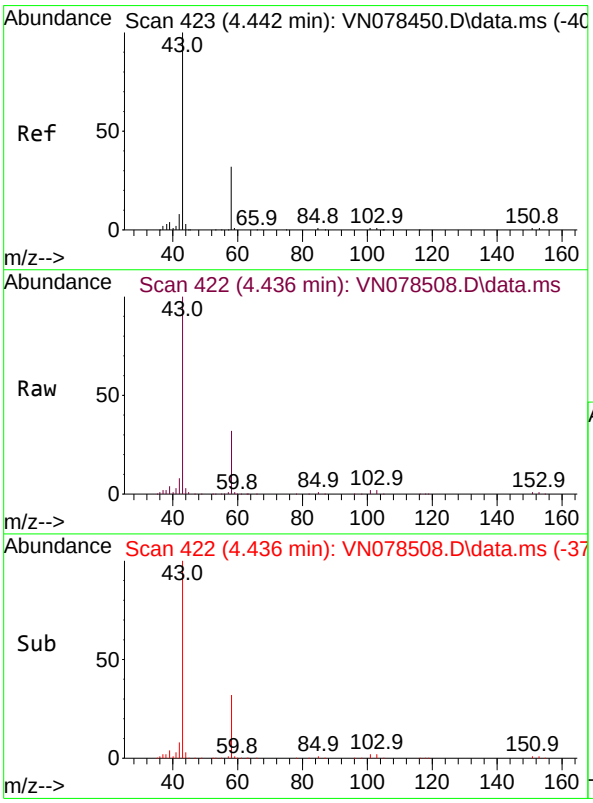
Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.3	97.9
51	36.7	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

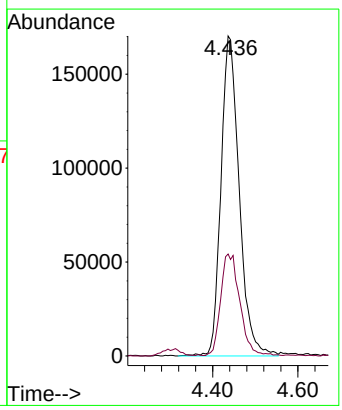
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

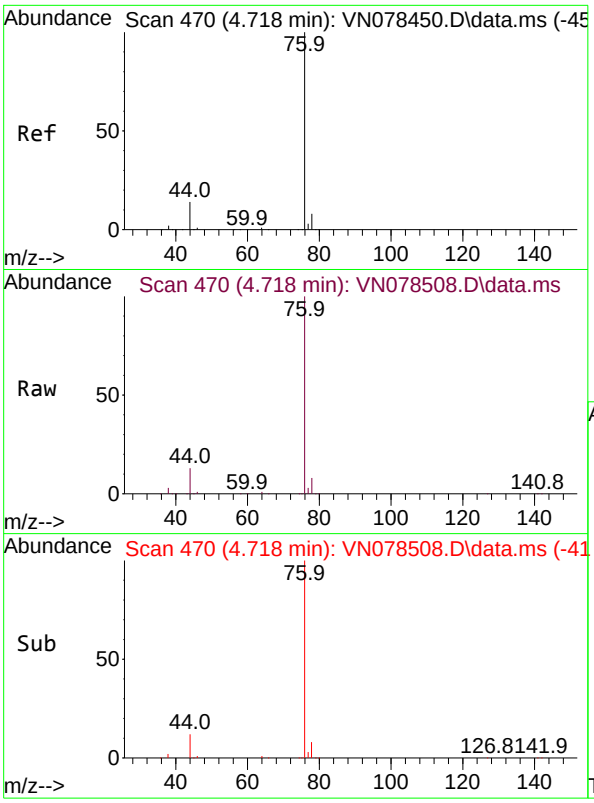


#16
Acetone
Concen: 252.033 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 43 Resp: 505950

Ion	Ratio	Lower	Upper
43	100		
58	31.5	28.0	42.0





#17
Carbon Disulfide
Concen: 42.349 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

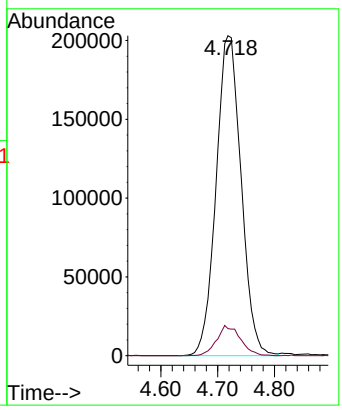
Tgt Ion: 76 Resp: 62116

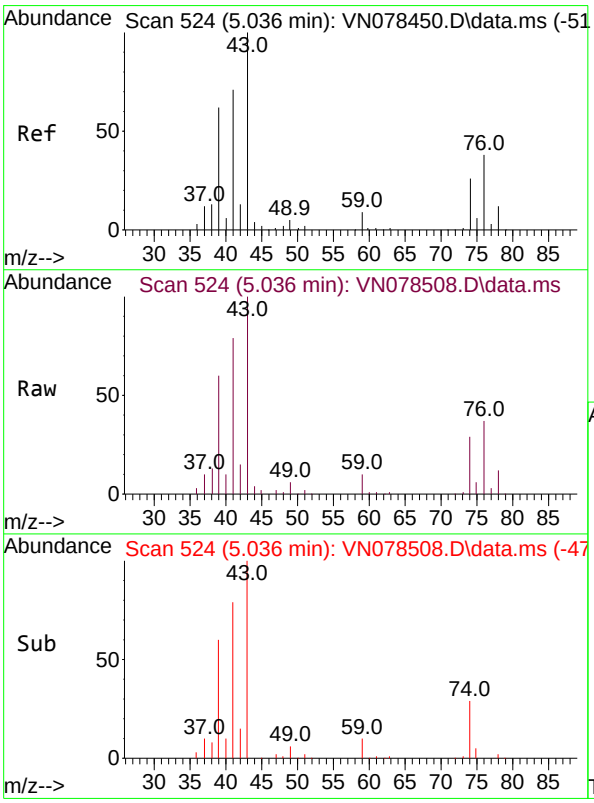
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

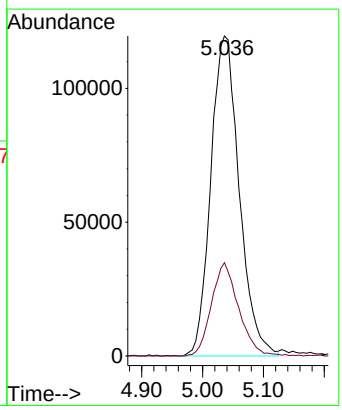


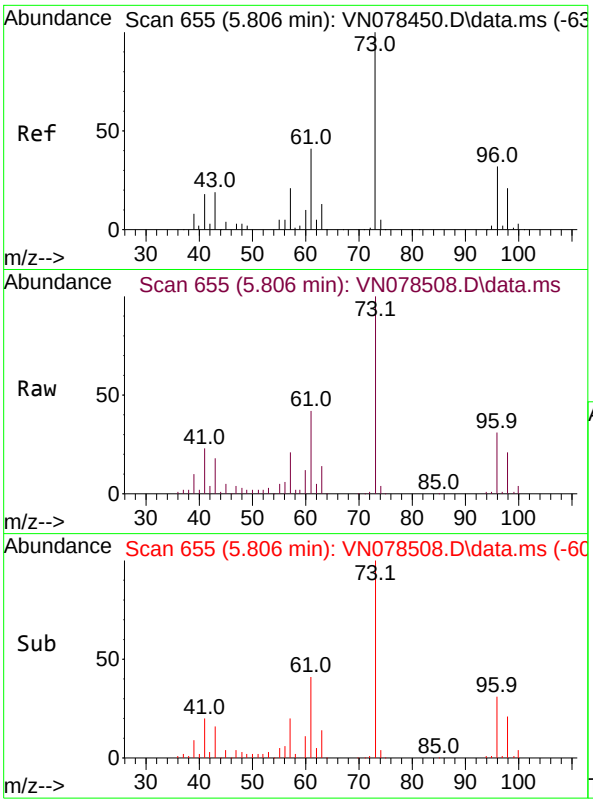


#18
Methyl Acetate
Concen: 45.679 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 43 Resp: 388183

Ion	Ratio	Lower	Upper
43	100		
74	27.9	26.2	39.4

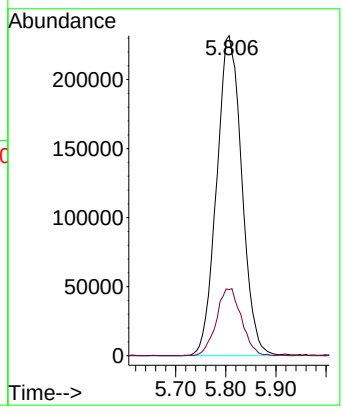




#19
Methyl tert-butyl Ether
Concen: 48.376 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 73 Resp: 80850

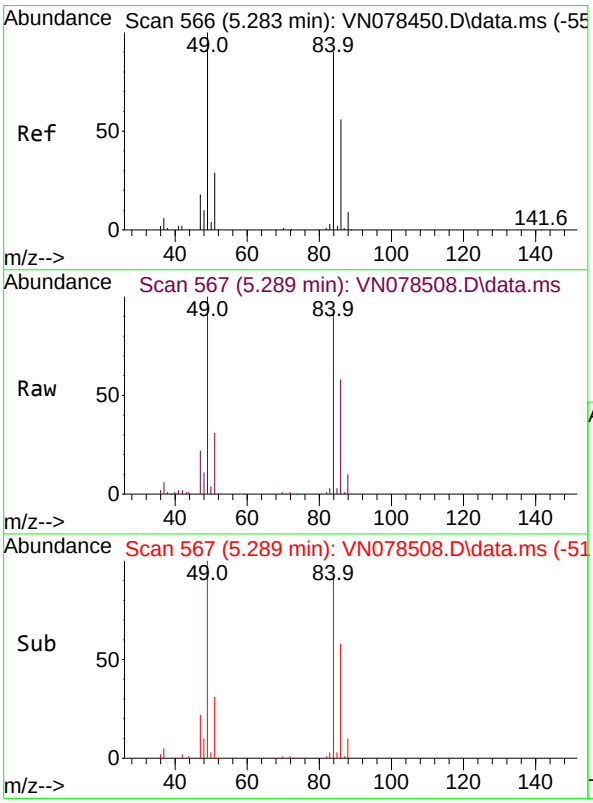
Ion	Ratio	Lower	Upper
73	100		
57	20.6	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

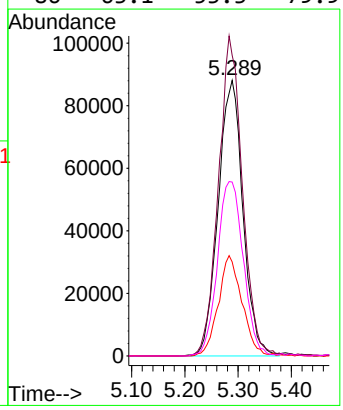
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

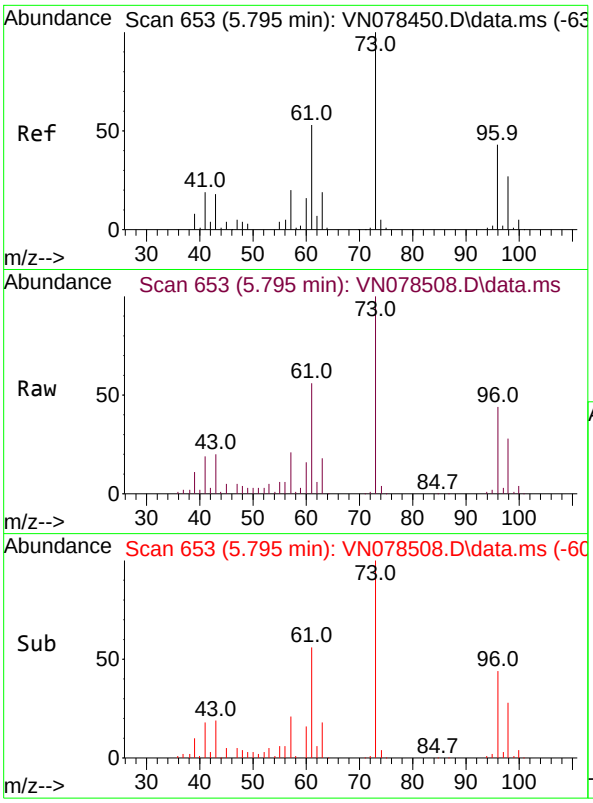


#20
Methylene Chloride
Concen: 49.438 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 84 Resp: 284753

Ion	Ratio	Lower	Upper
84	100		
49	109.1	79.7	119.5
51	34.2	25.2	37.8
86	63.1	53.3	79.9

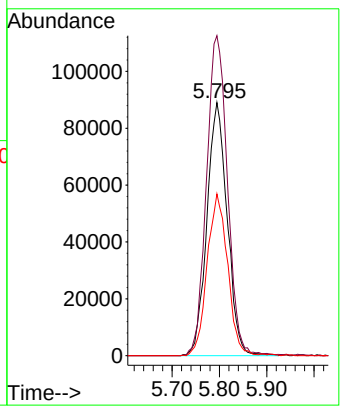




#21
trans-1,2-Dichloroethene
Concen: 46.430 ug/l
RT: 5.795 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 96 Resp: 26539

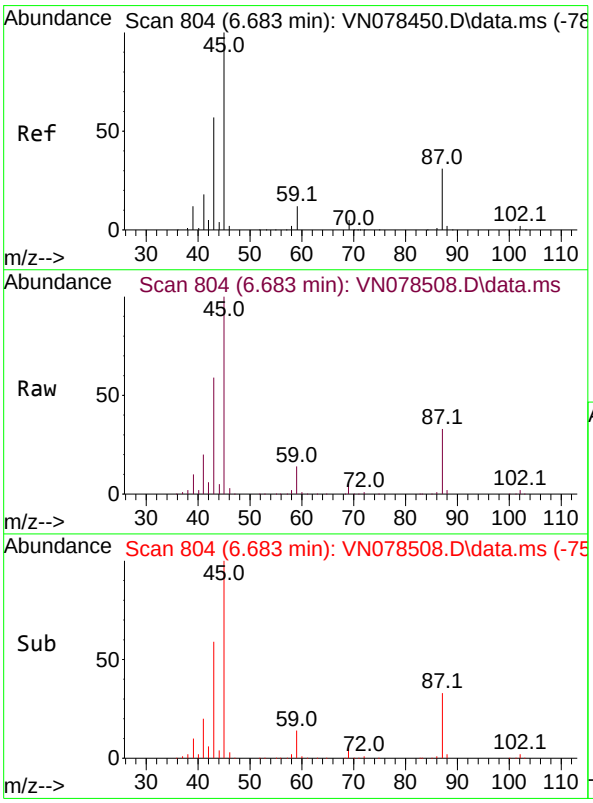
Ion	Ratio	Lower	Upper
96	100		
61	126.4	90.1	135.1
98	63.9	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

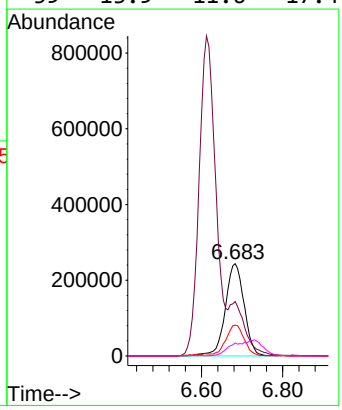
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

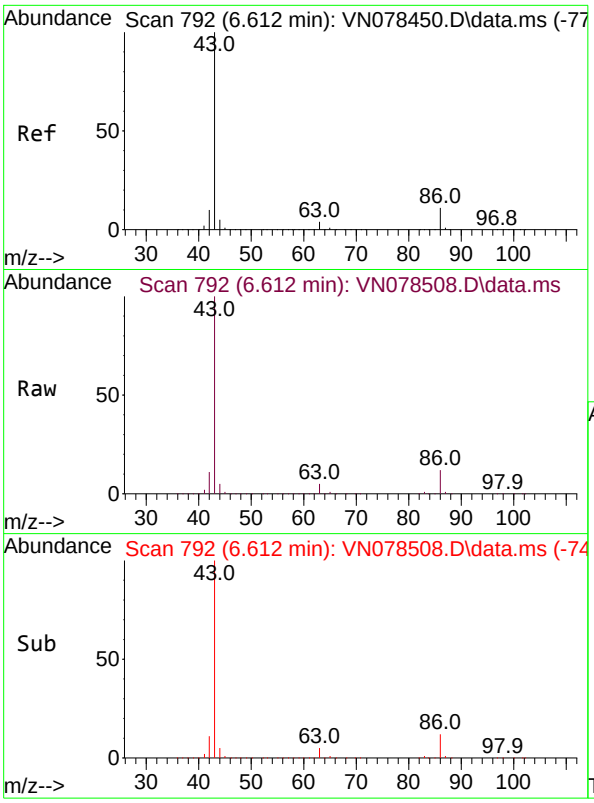


#22
Diisopropyl ether
Concen: 50.561 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 45 Resp: 784711

Ion	Ratio	Lower	Upper
45	100		
43	58.8	45.5	68.3
87	33.3	31.8	47.8
59	13.9	11.6	17.4





#23
Vinyl Acetate
Concen: 246.315 ug/l
RT: 6.612 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

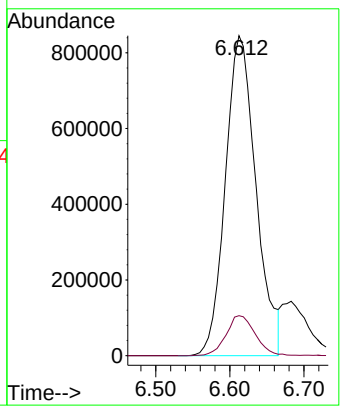
Tgt Ion: 43 Resp: 243029

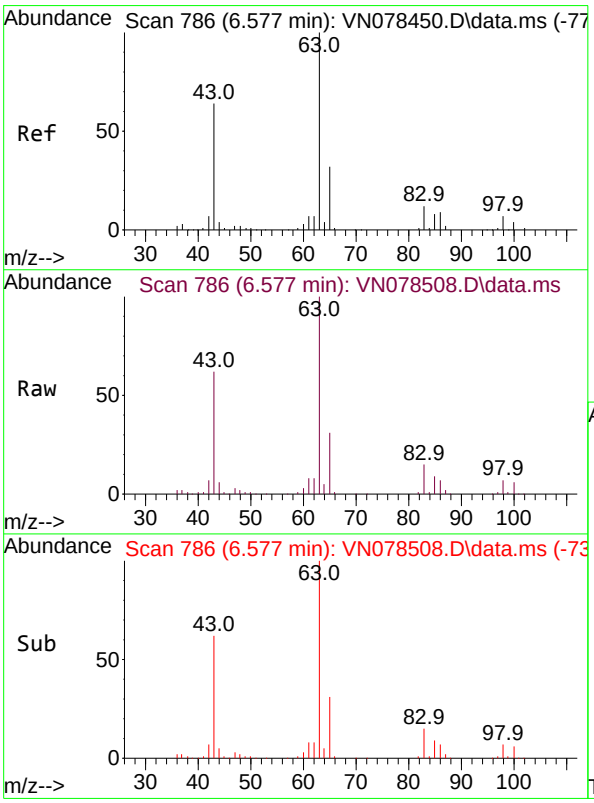
Ion	Ratio	Lower	Upper
43	100		
86	12.5	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

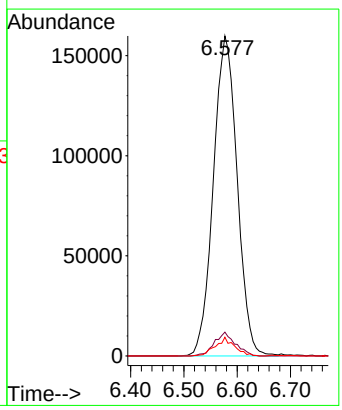


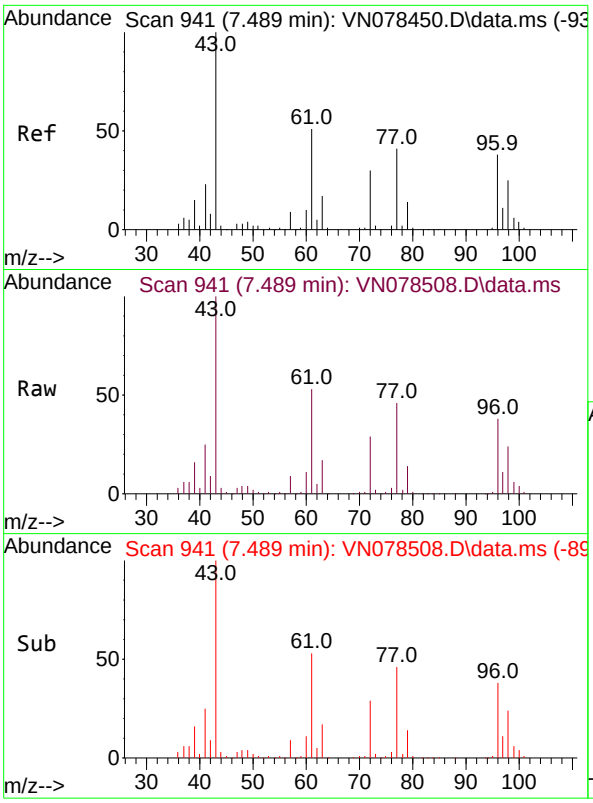


#24
1,1-Dichloroethane
Concen: 47.469 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 63 Resp: 496423

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.9	11.7
100	5.9	2.5	7.4





#25
2-Butanone
Concen: 243.115 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

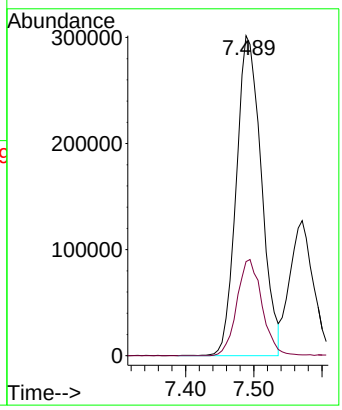
Tgt Ion: 43 Resp: 76825

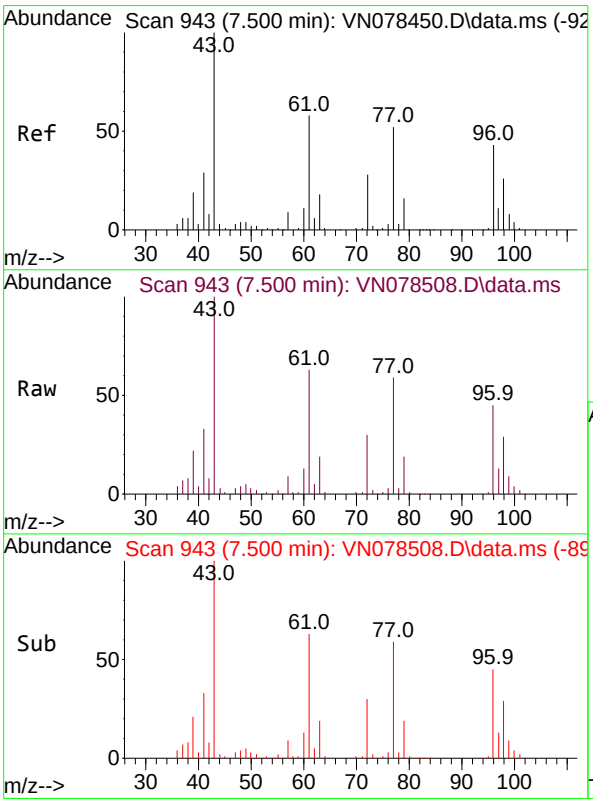
Ion	Ratio	Lower	Upper
43	100		
72	29.4	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

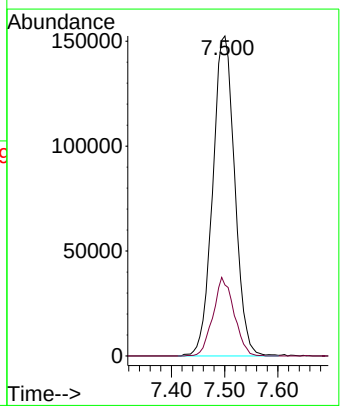


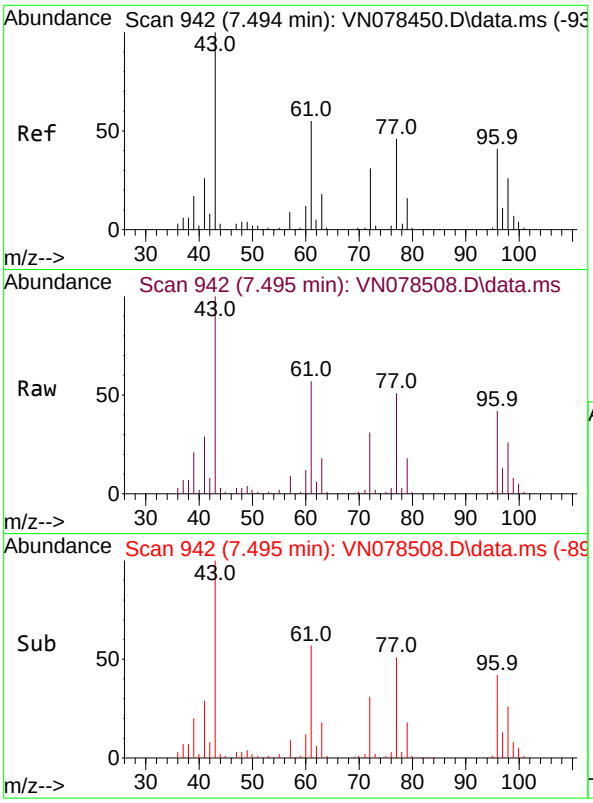


#26
2,2-Dichloropropane
Concen: 51.096 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 77 Resp: 437043

Ion	Ratio	Lower	Upper
77	100		
97	23.5	11.2	33.6





#27
cis-1,2-Dichloroethene
Concen: 47.981 ug/l
RT: 7.495 min Scan# 94
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

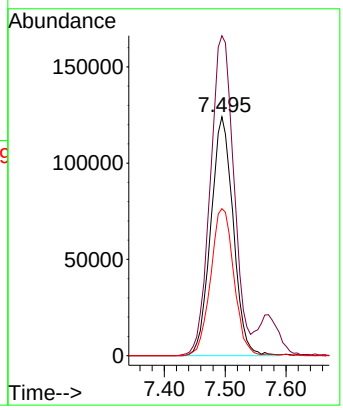
Tgt Ion: 96 Resp: 31727

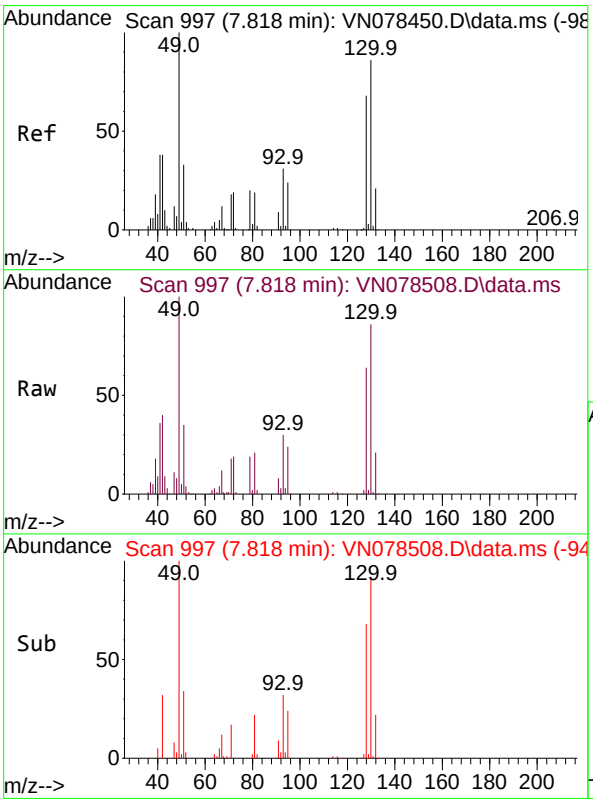
Ion	Ratio	Lower	Upper
96	100		
61	140.9	0.0	255.2
98	63.7	0.0	128.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

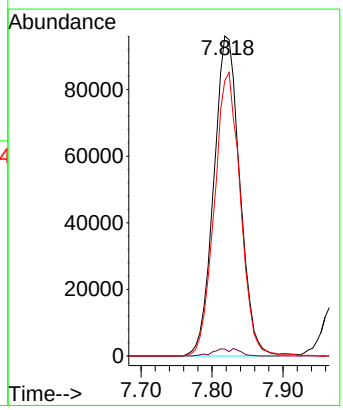


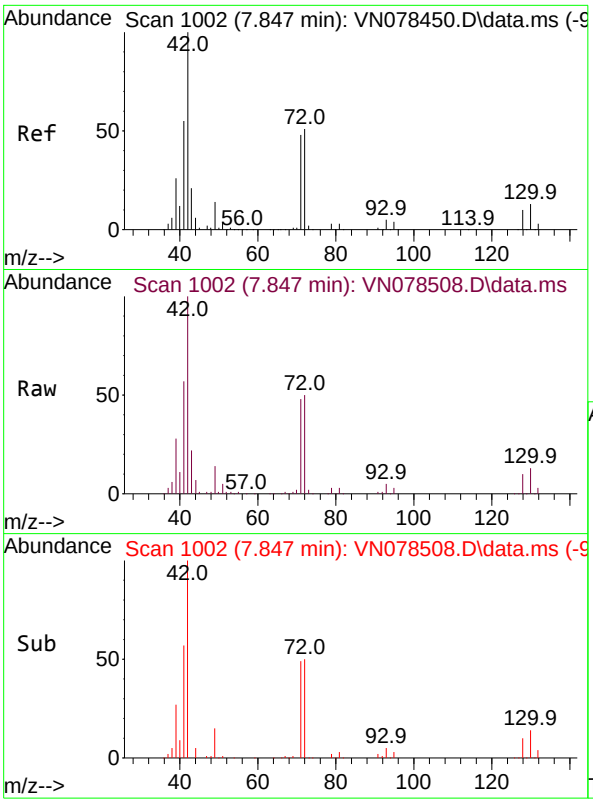


#28
Bromochloromethane
Concen: 49.680 ug/l
RT: 7.818 min Scan# 997
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 49 Resp: 244708

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.8
130	88.1	75.3	112.9





#29
Tetrahydrofuran
Concen: 237.262 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

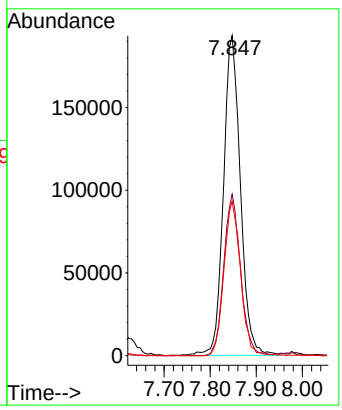
Tgt Ion: 42 Resp: 49196

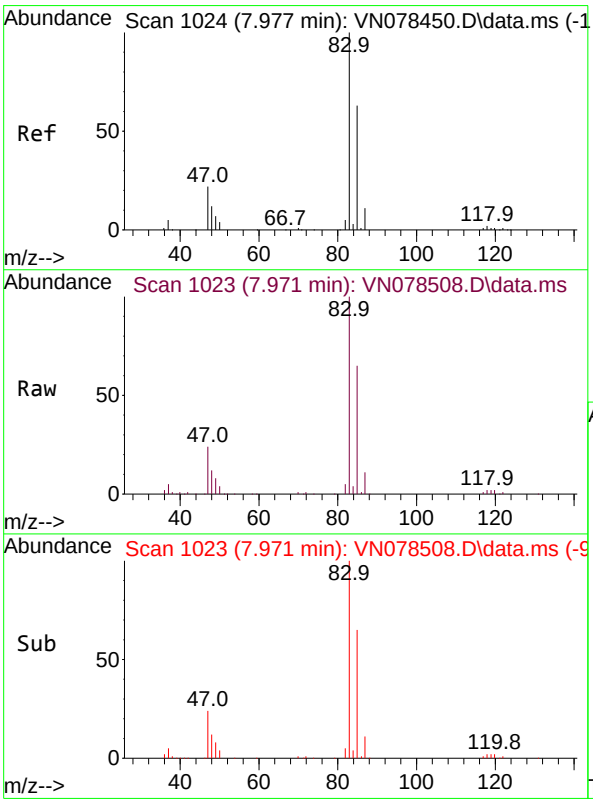
Ion	Ratio	Lower	Upper
42	100		
72	49.9	49.8	74.6
71	47.7	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

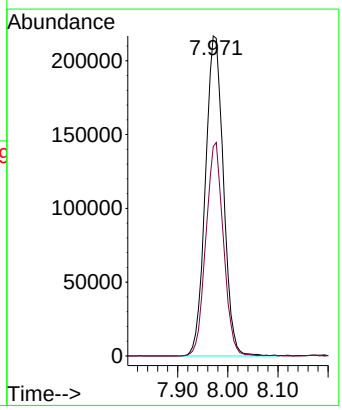


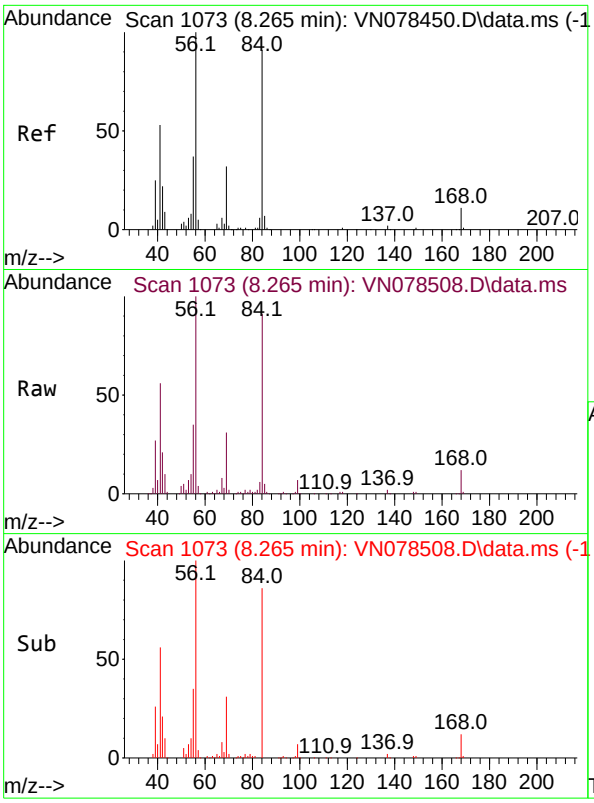


#30
Chloroform
Concen: 49.707 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 83 Resp: 541194

Ion	Ratio	Lower	Upper
83	100		
85	65.4	55.4	83.0

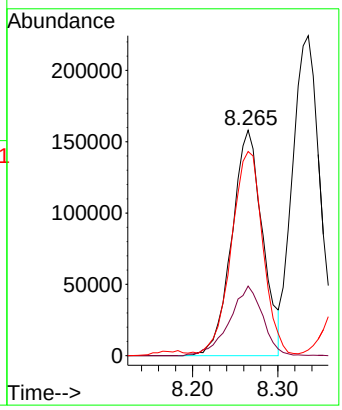




#31
Cyclohexane
Concen: 45.536 ug/l
RT: 8.265 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

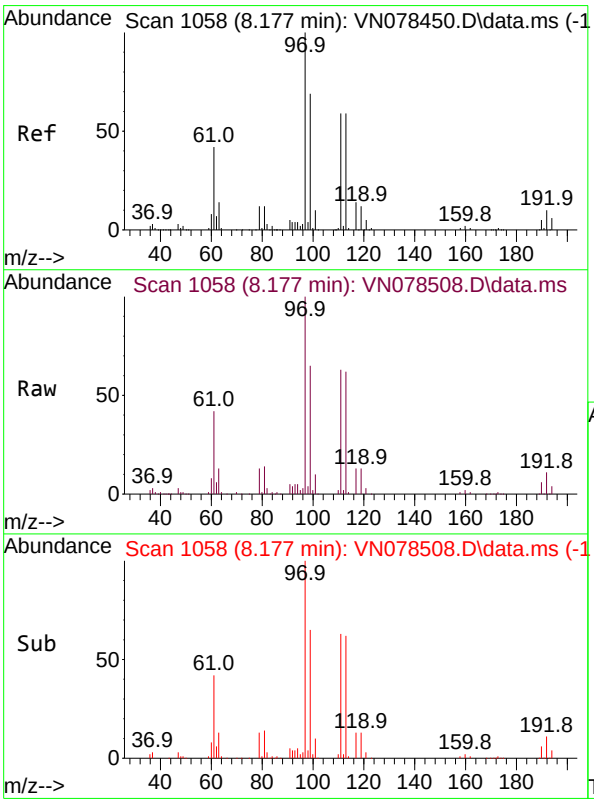
Tgt Ion: 56 Resp: 39659

Ion	Ratio	Lower	Upper
56	100		
69	30.9	26.8	40.2
84	88.3	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

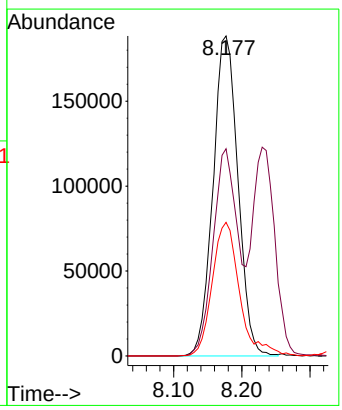
Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

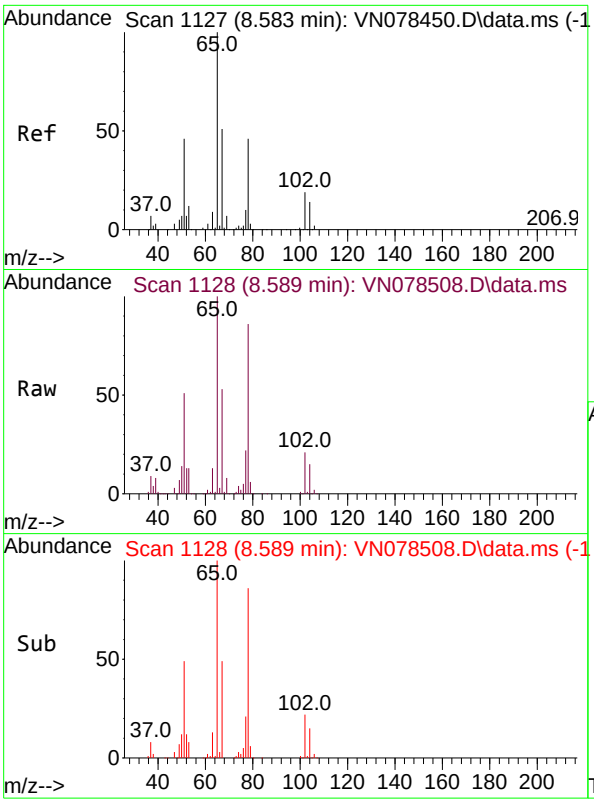


#32
1,1,1-Trichloroethane
Concen: 49.215 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 97 Resp: 480419

Ion	Ratio	Lower	Upper
97	100		
99	65.4	50.3	75.5
61	45.7	34.7	52.1





#33
1,2-Dichloroethane-d4
Concen: 51.280 ug/l
RT: 8.589 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

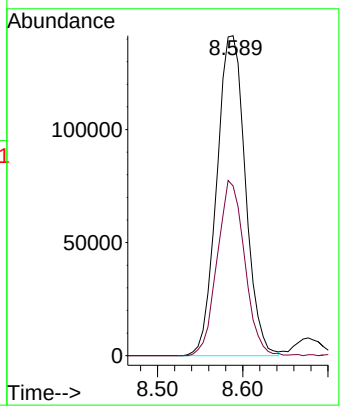
Tgt Ion: 65 Resp: 33047

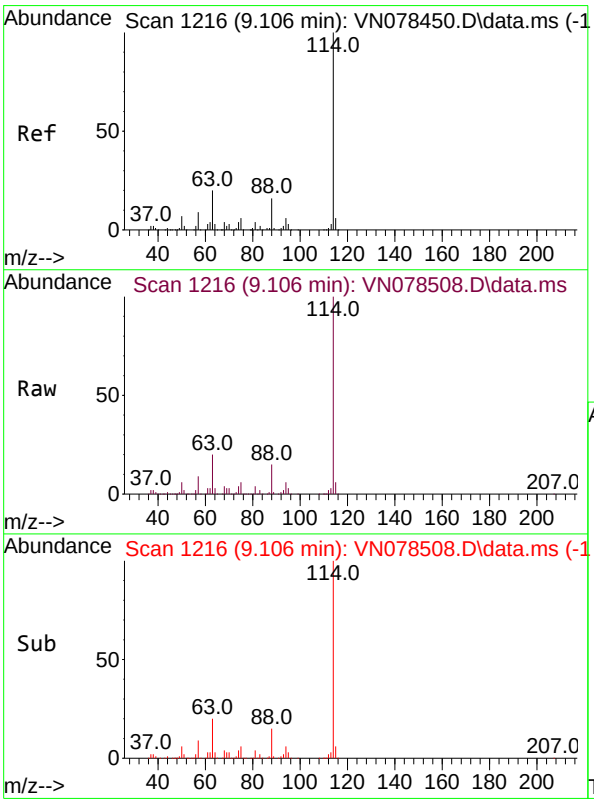
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Supervised By :Mahesh Dadoda 07/17/2023

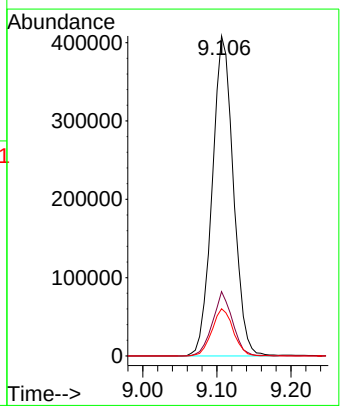


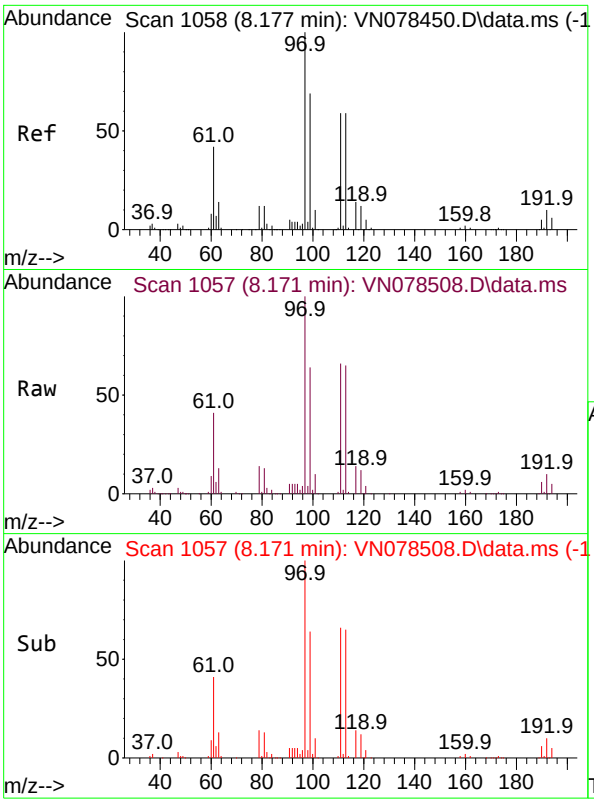


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:114 Resp: 810635

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	36.4
88	14.8	0.0	30.6

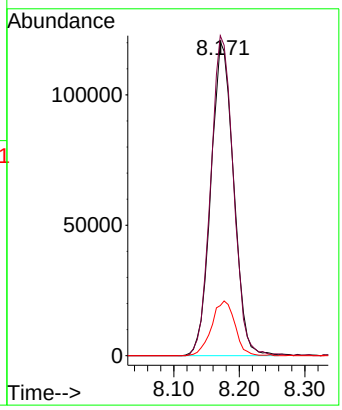




#35
Dibromofluoromethane
Concen: 52.556 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:113 Resp: 28920

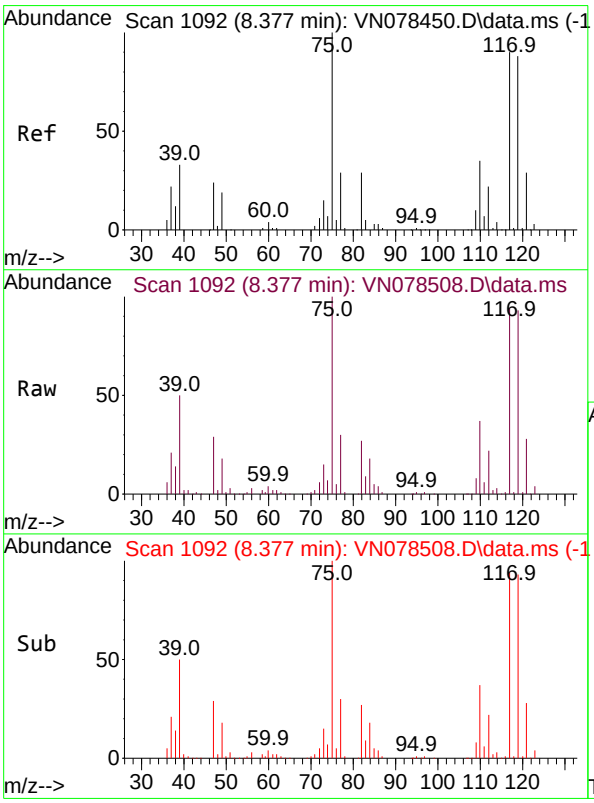
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	17.9	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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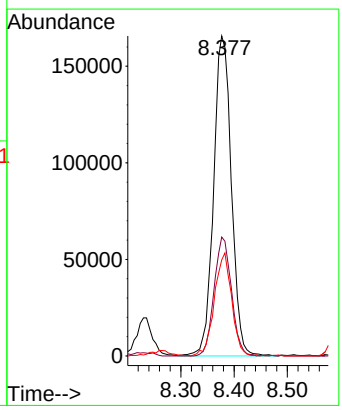
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

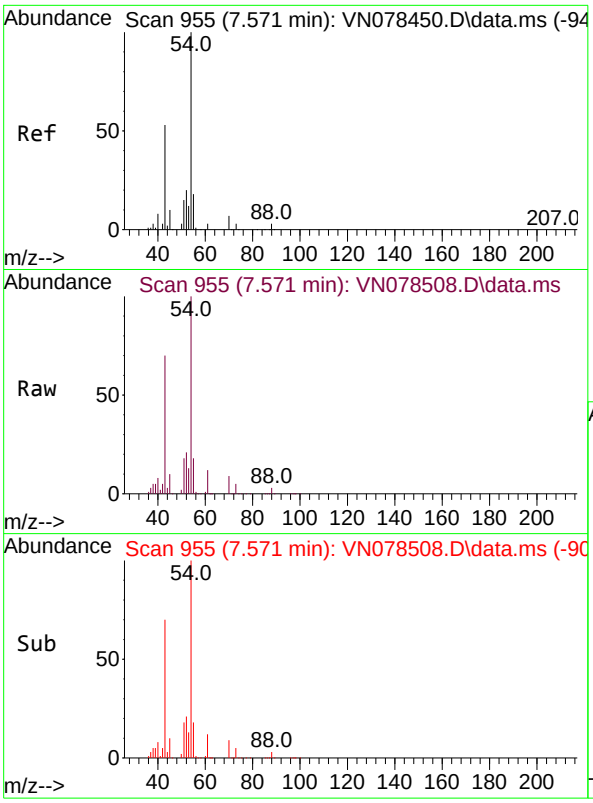


#36
1,1-Dichloropropene
Concen: 48.350 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 384173

Ion	Ratio	Lower	Upper
75	100		
110	36.3	19.1	57.3
77	31.3	25.0	37.4





#37
Ethyl Acetate
Concen: 47.379 ug/l
RT: 7.571 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

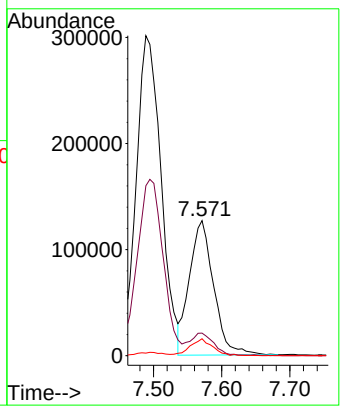
Tgt Ion: 43 Resp: 31381

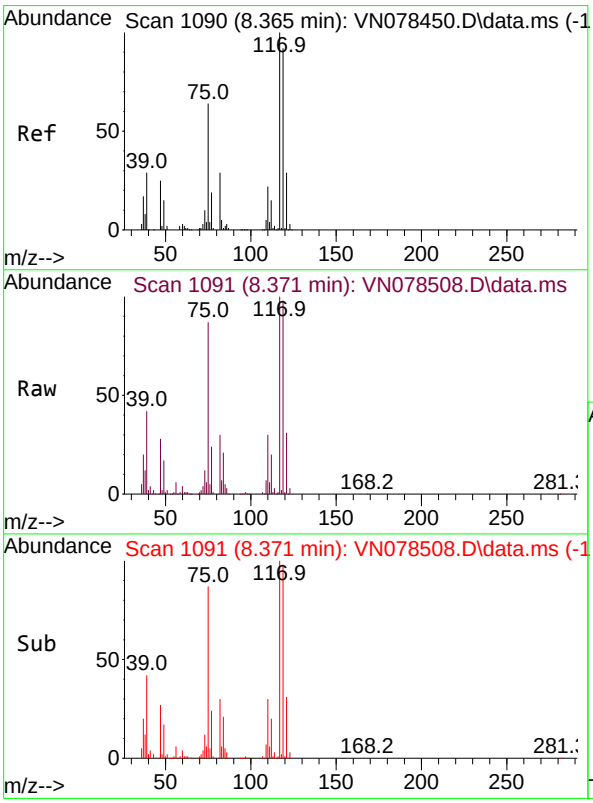
Ion	Ratio	Lower	Upper
43	100		
61	14.6	13.2	19.8
70	11.4	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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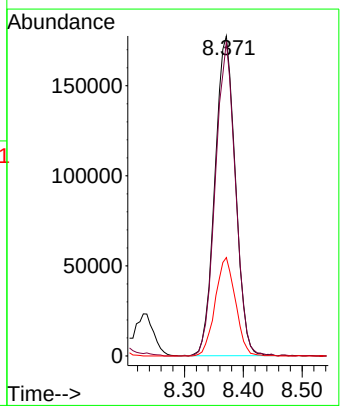


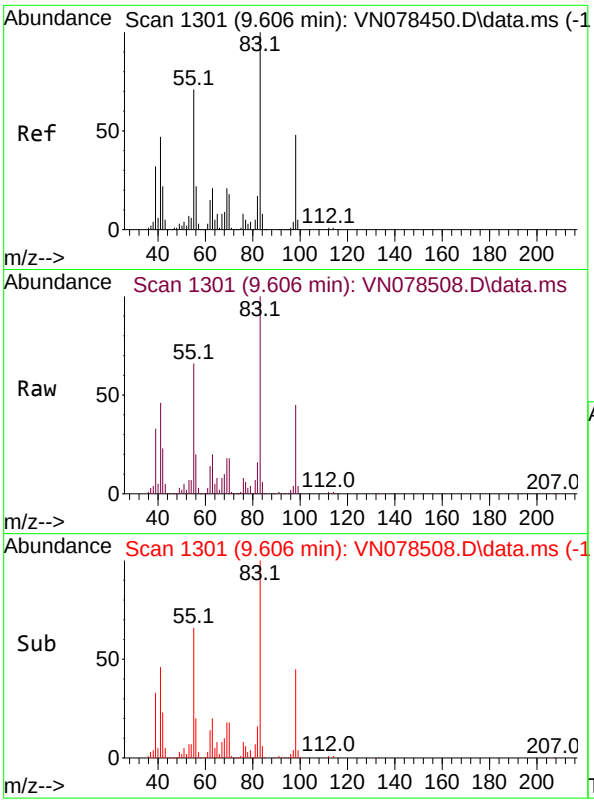


#38
Carbon Tetrachloride
Concen: 49.661 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:117 Resp: 428854

Ion	Ratio	Lower	Upper
117	100		
119	98.3	77.3	115.9
121	30.8	23.3	34.9





#39
Methylcyclohexane
Concen: 50.367 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

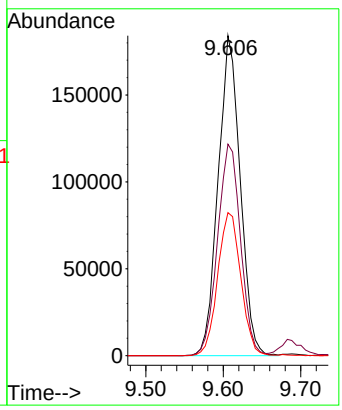
Tgt Ion: 83 Resp: 36529

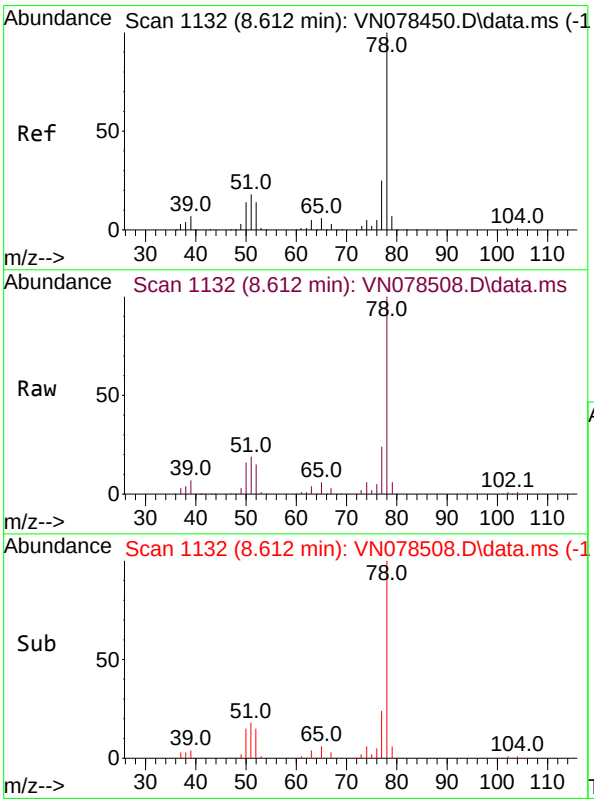
Ion	Ratio	Lower	Upper
83	100		
55	66.1	49.1	73.7
98	44.7	40.6	61.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

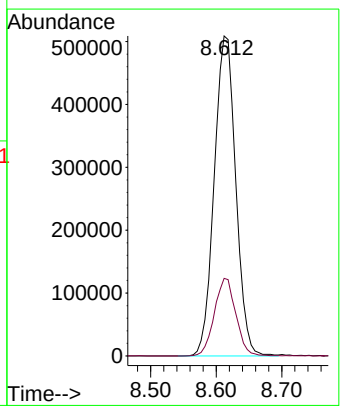


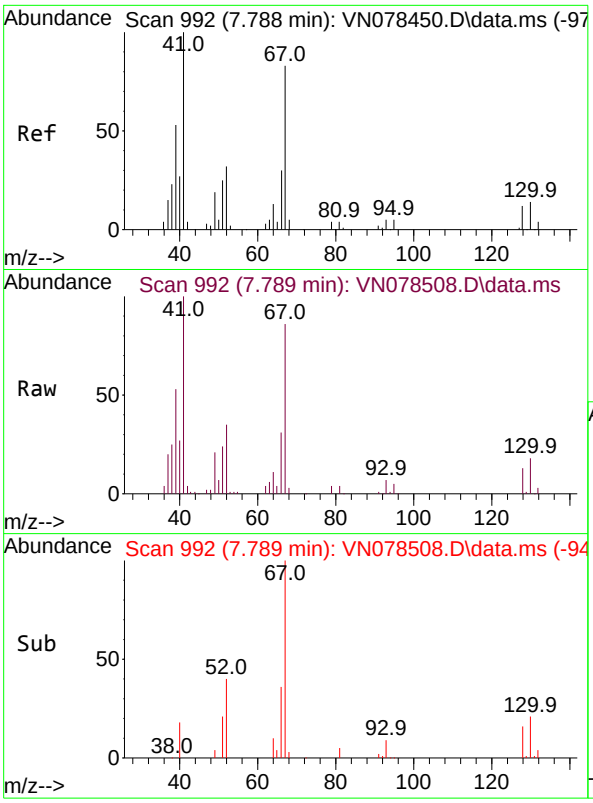


#40
Benzene
Concen: 49.258 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 78 Resp: 1159505

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6

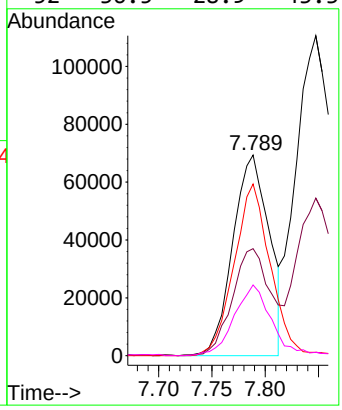




#41
Methacrylonitrile
Concen: 48.810 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 41 Resp: 16481

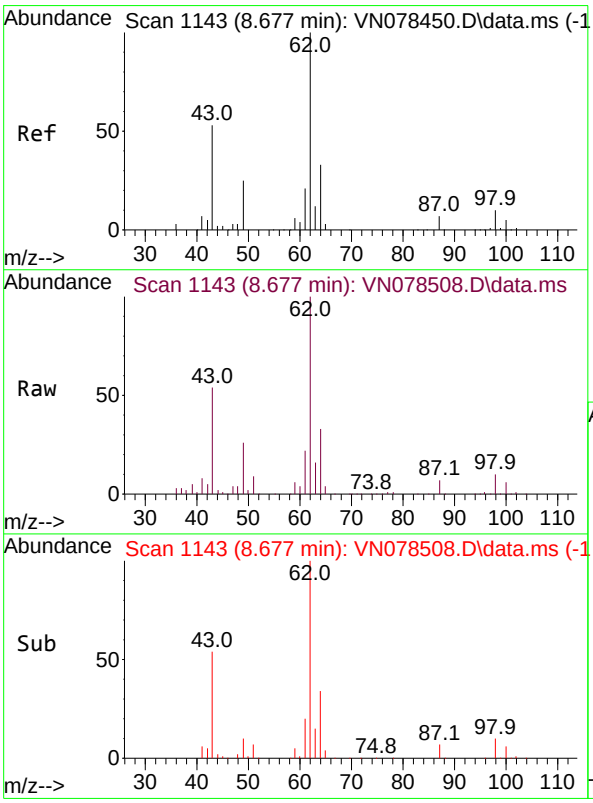
Ion	Ratio	Lower	Upper
41	100		
39	58.4	42.6	64.0
67	86.0	77.5	116.3
52	36.5	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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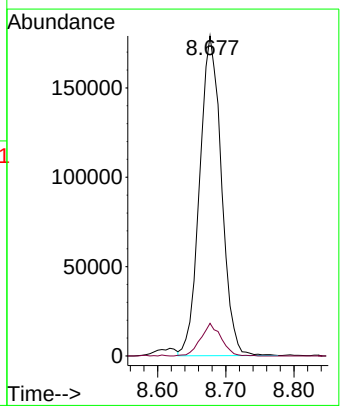
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

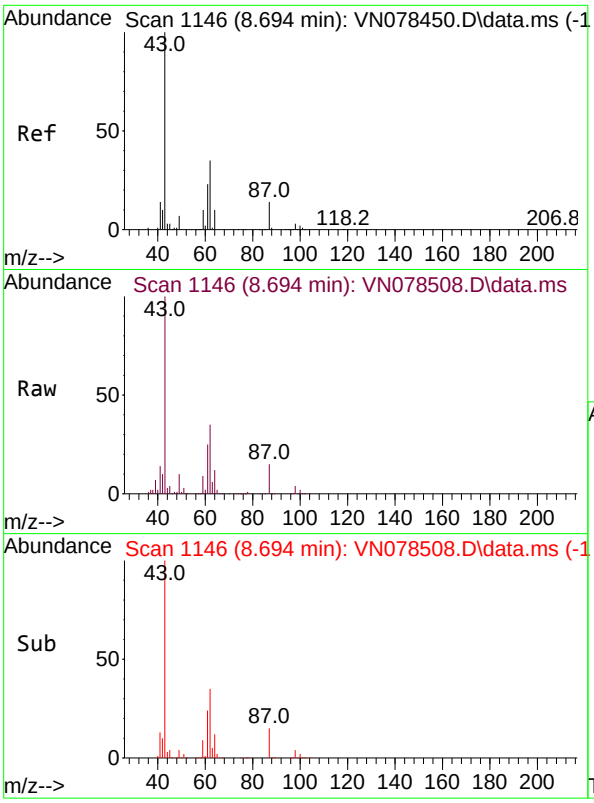


#42
1,2-Dichloroethane
Concen: 49.717 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 62 Resp: 398069

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8

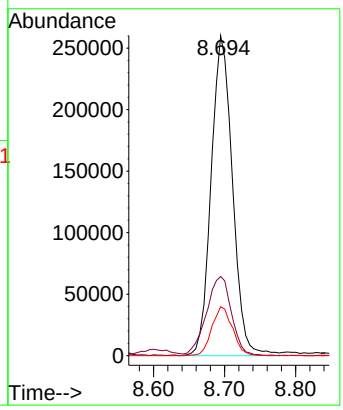




#43
Isopropyl Acetate
Concen: 49.813 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 43 Resp: 54321

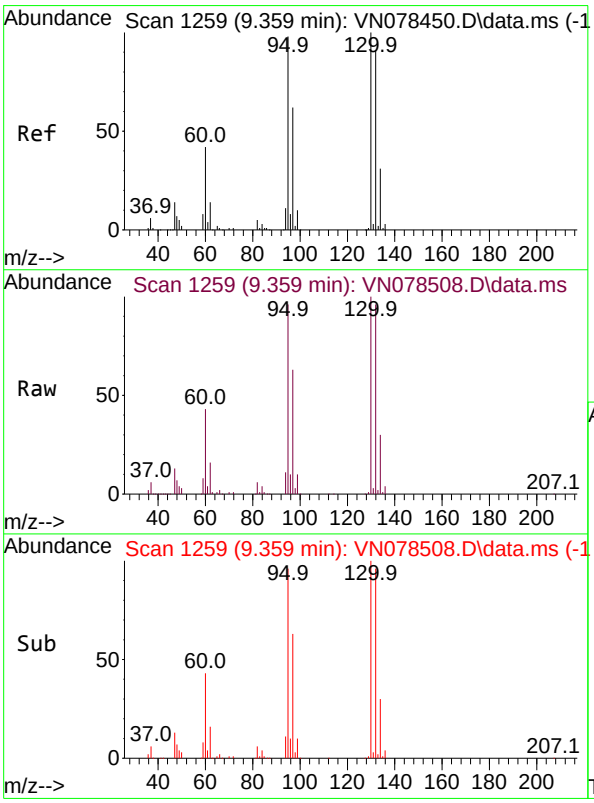
Ion	Ratio	Lower	Upper
43	100		
61	29.1	24.7	37.1
87	14.8	14.6	21.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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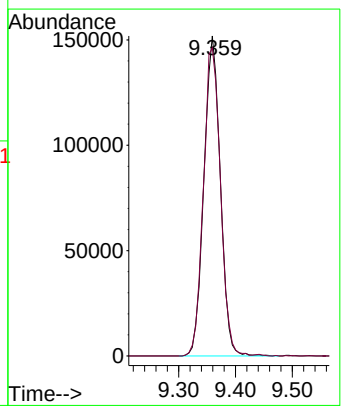
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

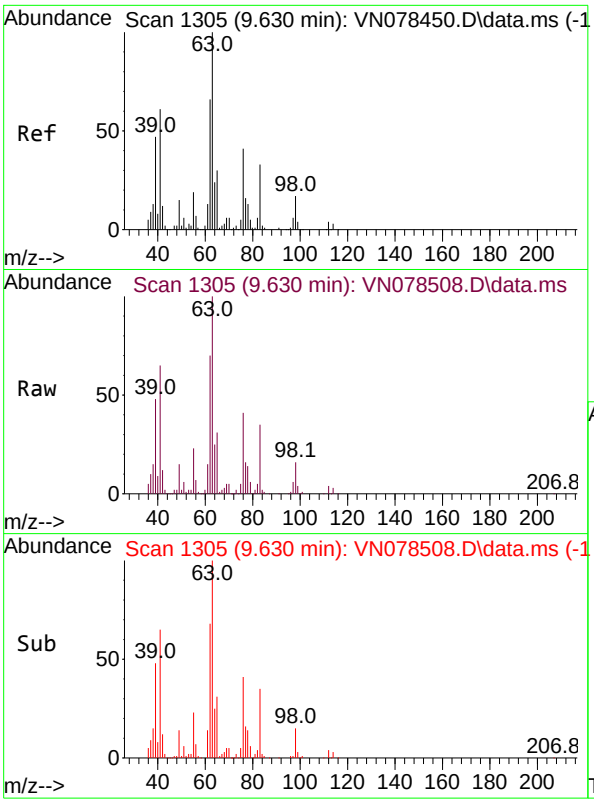


#44
Trichloroethene
Concen: 47.918 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:130 Resp: 304006

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	204.6





#45
1,2-Dichloropropane
Concen: 49.806 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

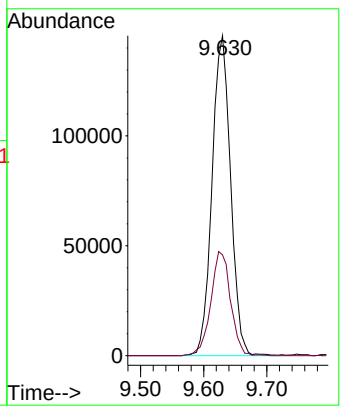
Tgt Ion: 63 Resp: 29694

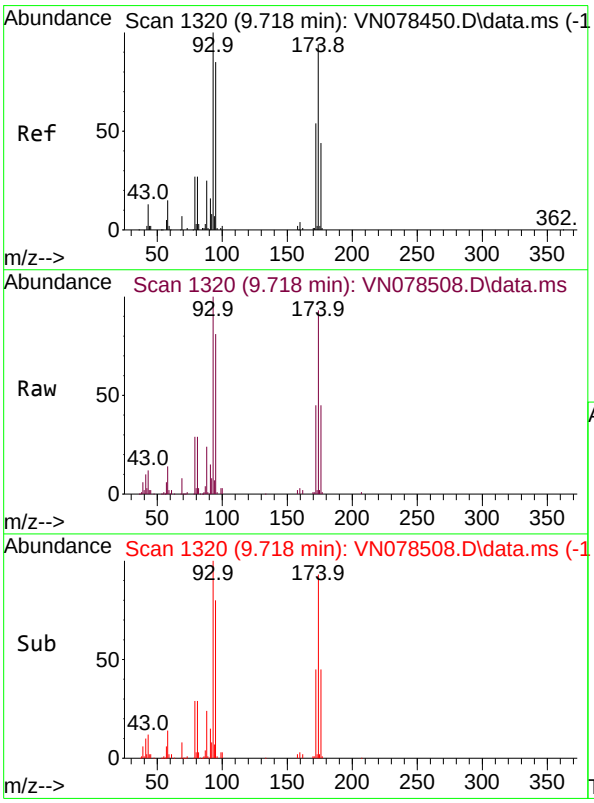
Ion	Ratio	Lower	Upper
63	100		
65	31.5	23.9	35.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

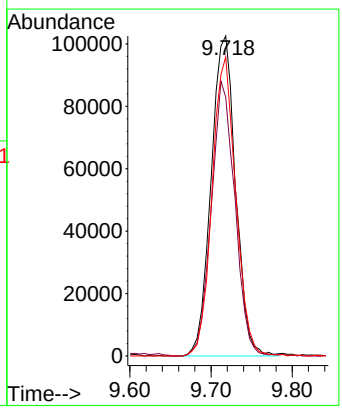


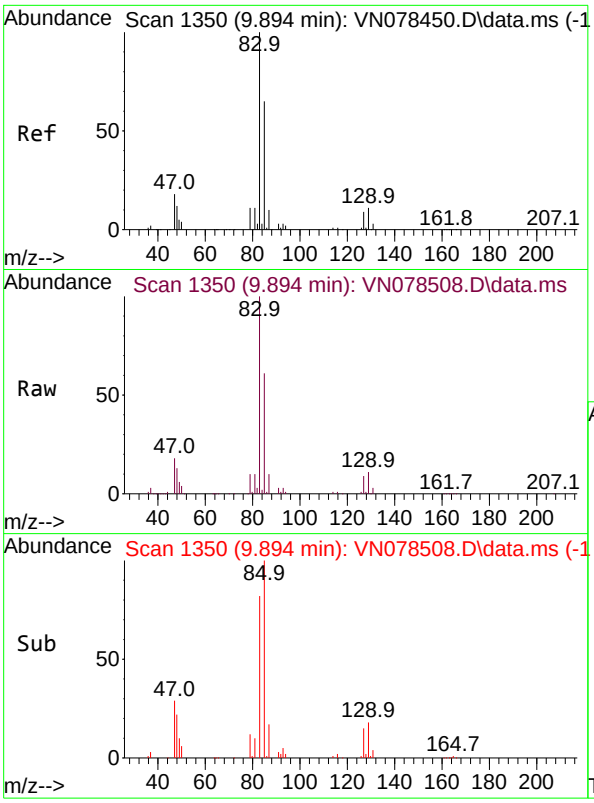


#46
Dibromomethane
Concen: 51.300 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 93 Resp: 215263

Ion	Ratio	Lower	Upper
93	100		
95	82.7	63.8	95.8
174	90.4	65.6	98.4

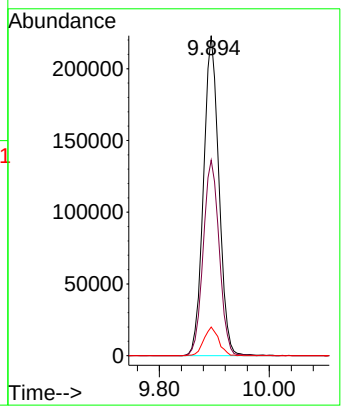




#47
Bromodichloromethane
Concen: 51.569 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 83 Resp: 43377

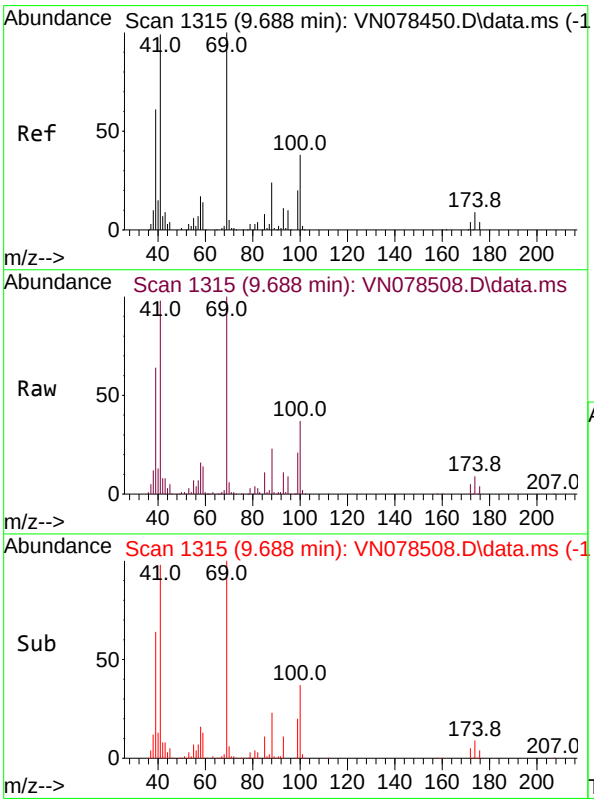
Ion	Ratio	Lower	Upper
83	100		
85	61.1	49.6	74.4
127	9.0	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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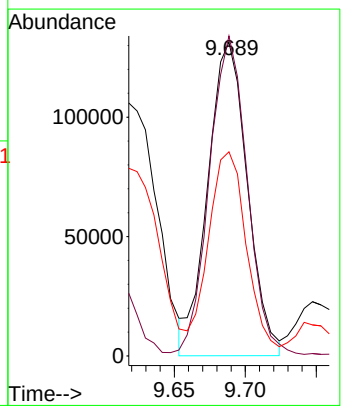
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

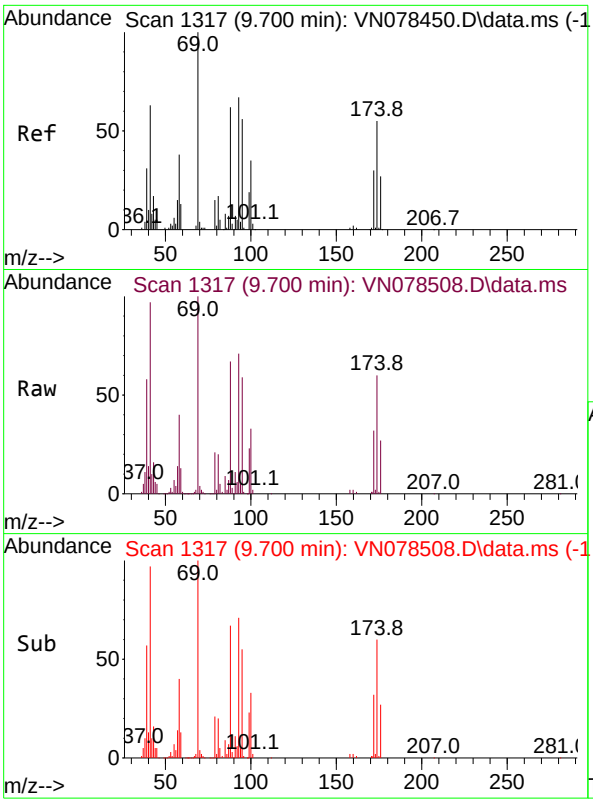


#48
Methyl methacrylate
Concen: 50.387 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 41 Resp: 254563

Ion	Ratio	Lower	Upper
41	100		
69	99.1	90.4	135.6
39	62.9	54.6	81.8





#49
1,4-Dioxane
Concen: 986.961 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

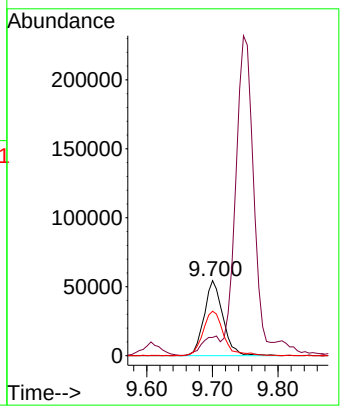
Tgt Ion: 88 Resp: 10874

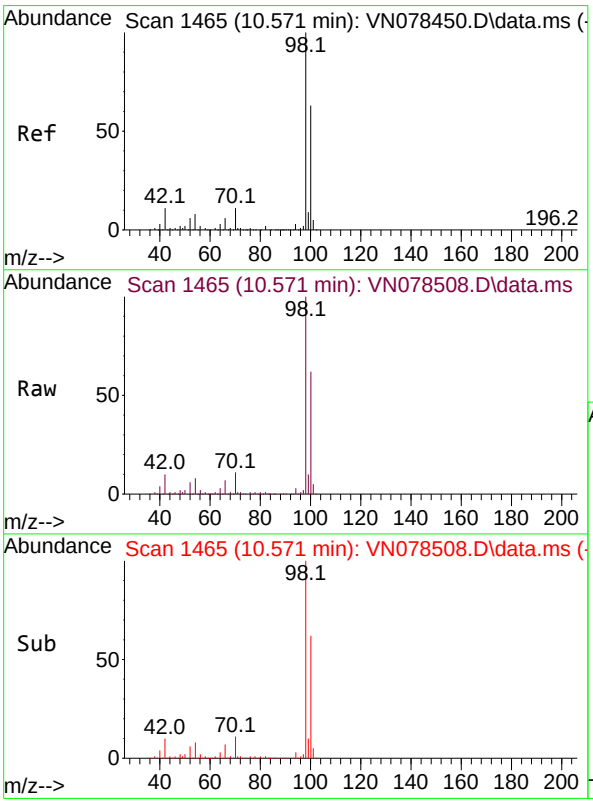
Ion	Ratio	Lower	Upper
88	100		
43	24.3	17.0	25.6
58	65.0	47.0	70.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

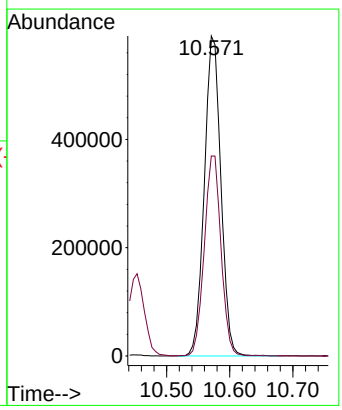


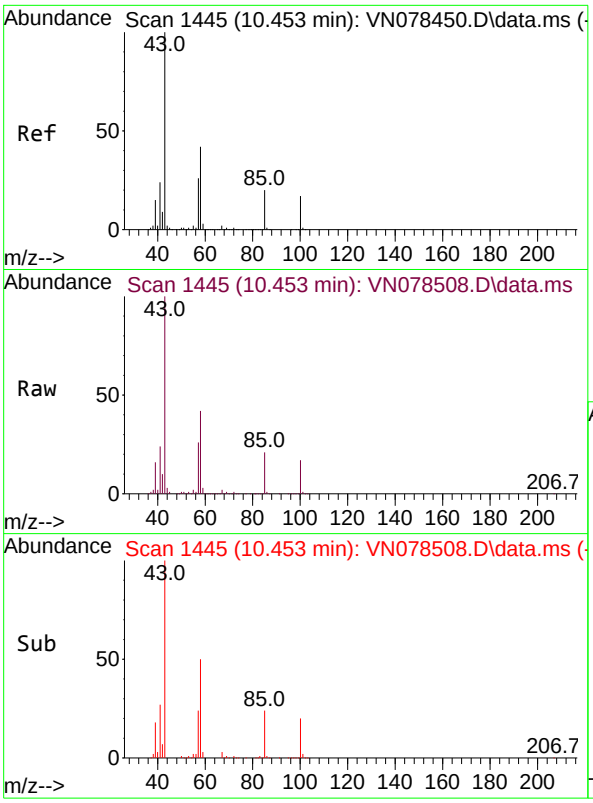


#50
Toluene-d8
Concen: 51.847 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 98 Resp: 1077791

Ion	Ratio	Lower	Upper
98	100		
100	63.3	52.0	78.0

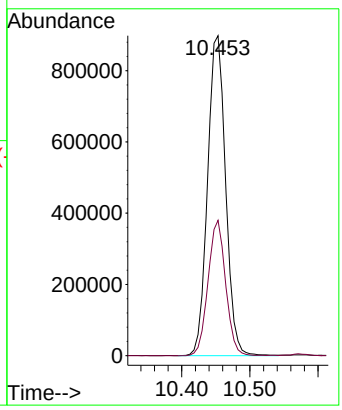




#51
4-Methyl-2-Pentanone
Concen: 255.130 ug/l
RT: 10.453 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 43 Resp: 165486

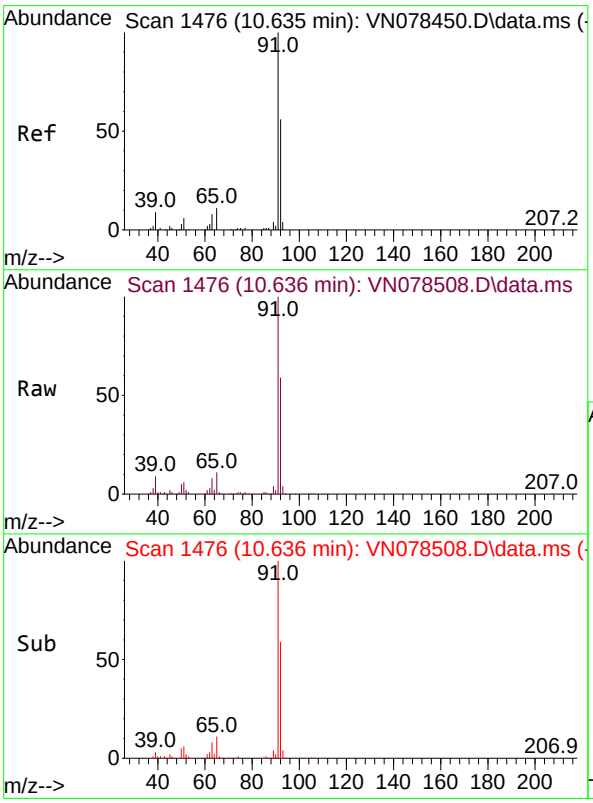
Ion	Ratio	Lower	Upper
43	100		
58	41.2	36.6	54.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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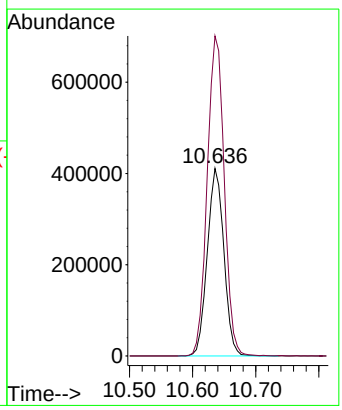
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

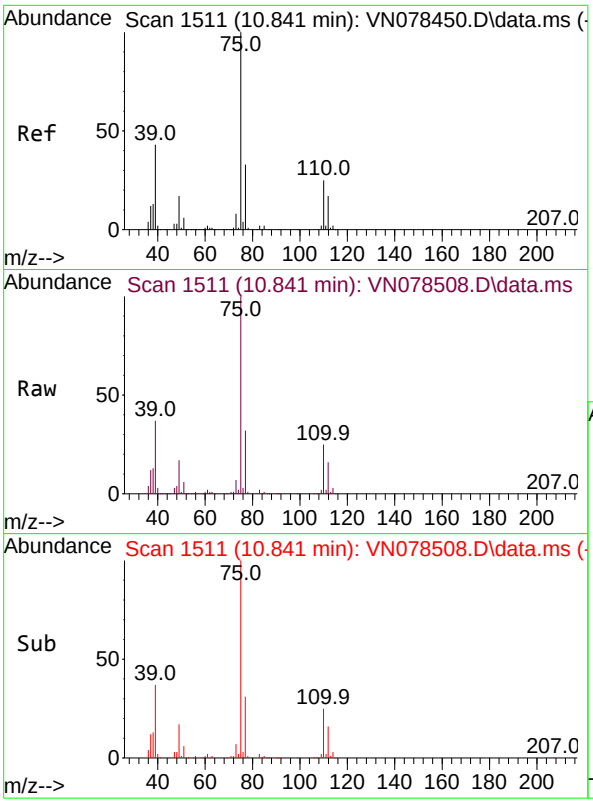


#52
Toluene
Concen: 51.412 ug/l
RT: 10.636 min Scan# 1476
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 92 Resp: 750064

Ion	Ratio	Lower	Upper
92	100		
91	175.2	137.4	206.0

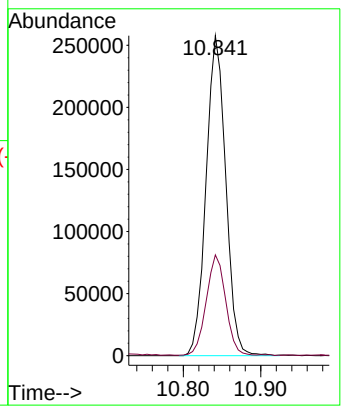




#53
t-1,3-Dichloropropene
Concen: 52.667 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 45385

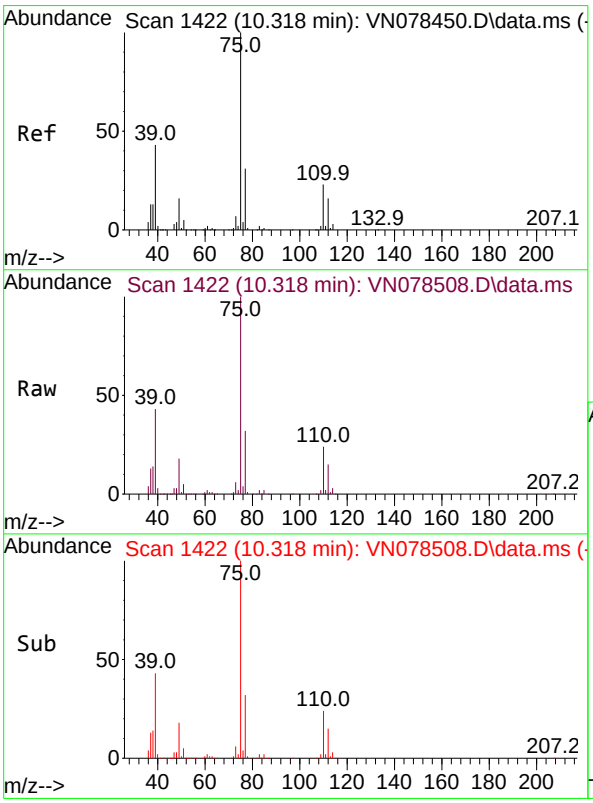
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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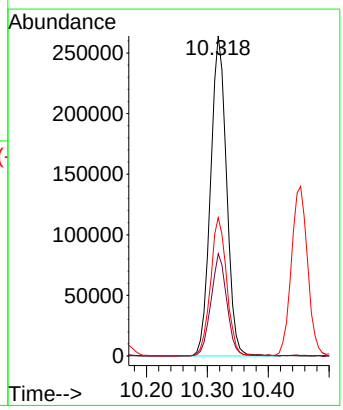
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

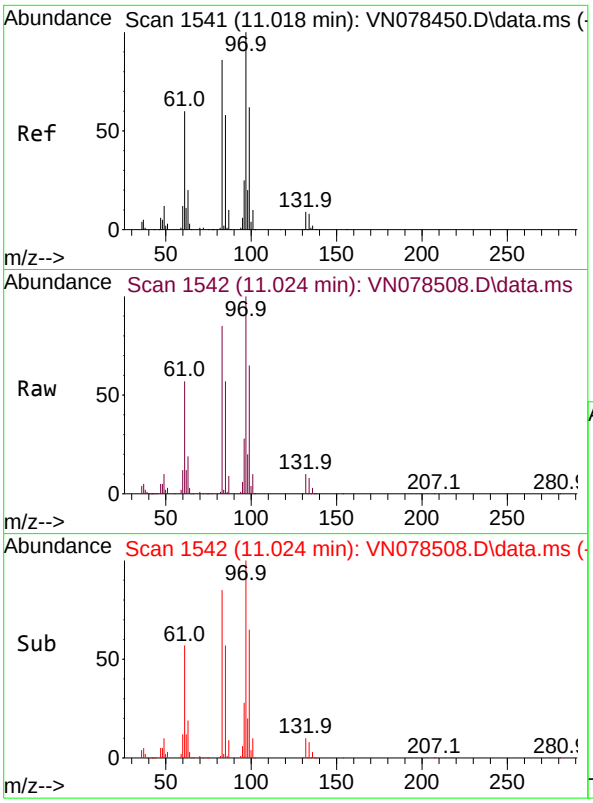


#54
cis-1,3-Dichloropropene
Concen: 52.381 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 481148

Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.1	39.1
39	43.1	31.6	47.4

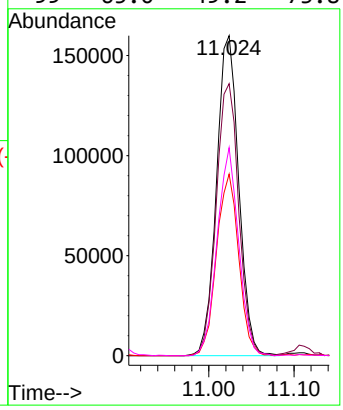




#55
1,1,2-Trichloroethane
Concen: 50.558 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 97 Resp: 29061

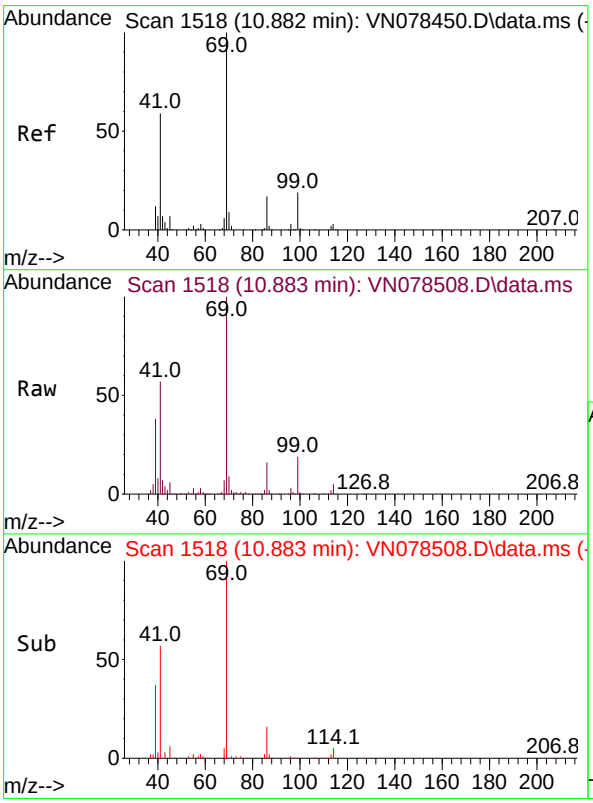
Ion	Ratio	Lower	Upper
97	100		
83	85.0	65.1	97.7
85	56.7	43.4	65.2
99	65.0	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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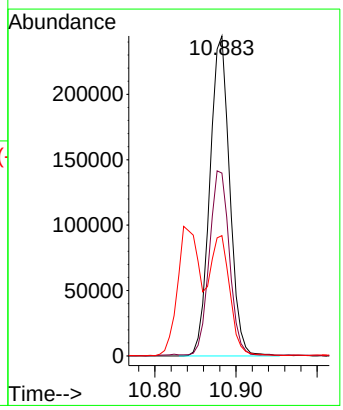
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

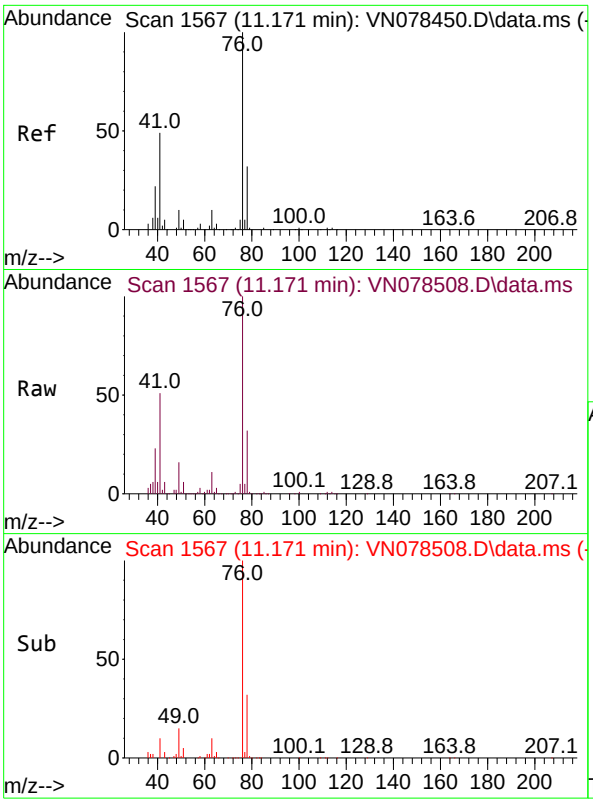


#56
Ethyl methacrylate
Concen: 51.637 ug/l
RT: 10.883 min Scan# 1518
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 69 Resp: 414908

Ion	Ratio	Lower	Upper
69	100		
41	57.9	39.6	59.4
39	38.4	28.6	43.0

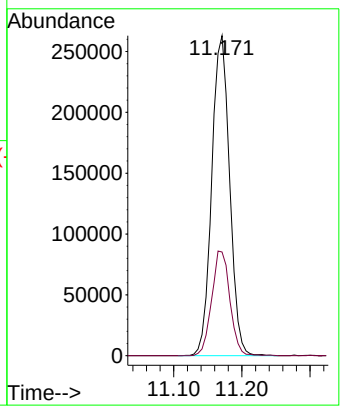




#57
1,3-Dichloropropane
Concen: 49.169 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 76 Resp: 48055

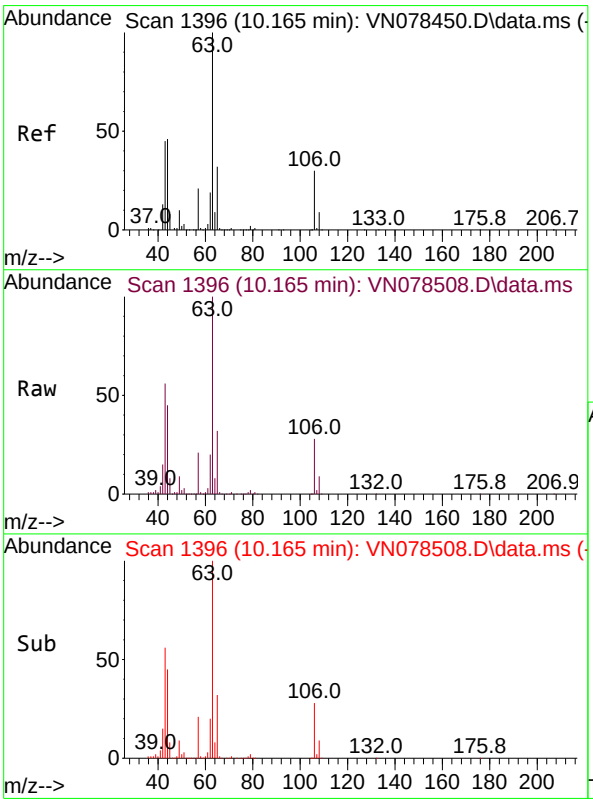
Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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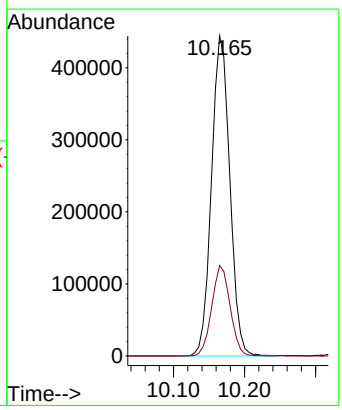
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

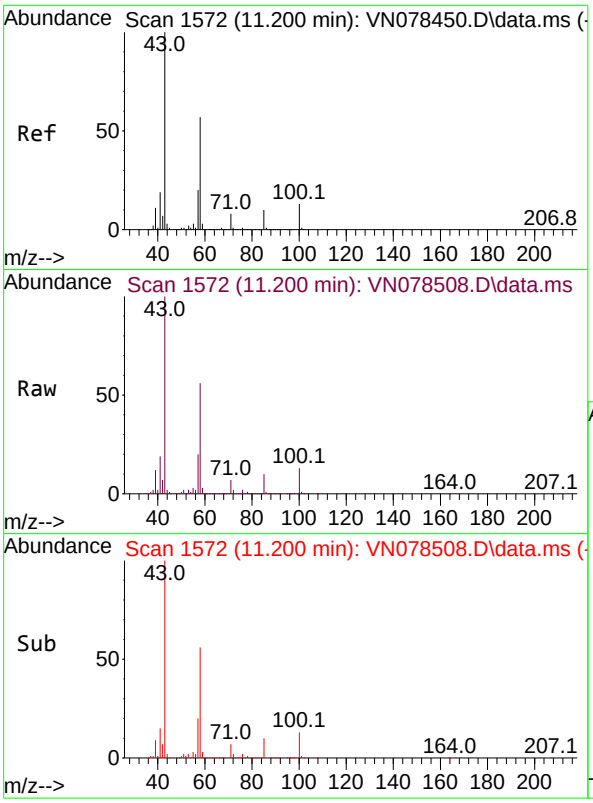


#58
2-Chloroethyl Vinyl ether
Concen: 277.960 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 63 Resp: 795943

Ion	Ratio	Lower	Upper
63	100		
106	28.2	26.2	39.4





#59
2-Hexanone
Concen: 255.394 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

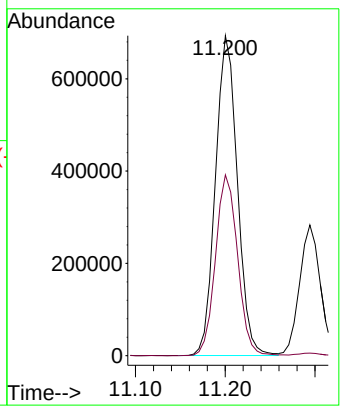
Tgt Ion: 43 Resp: 117735

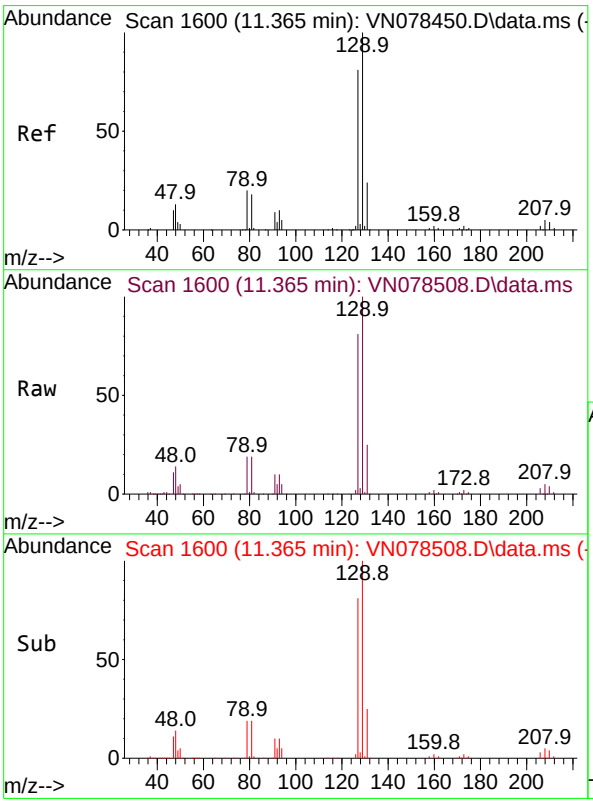
Ion	Ratio	Lower	Upper
43	100		
58	57.0	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

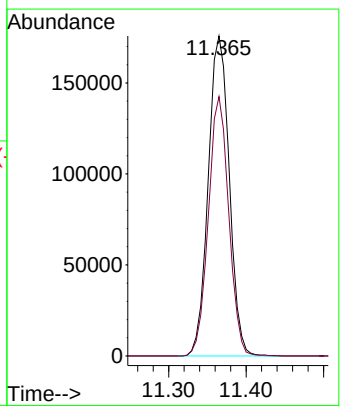


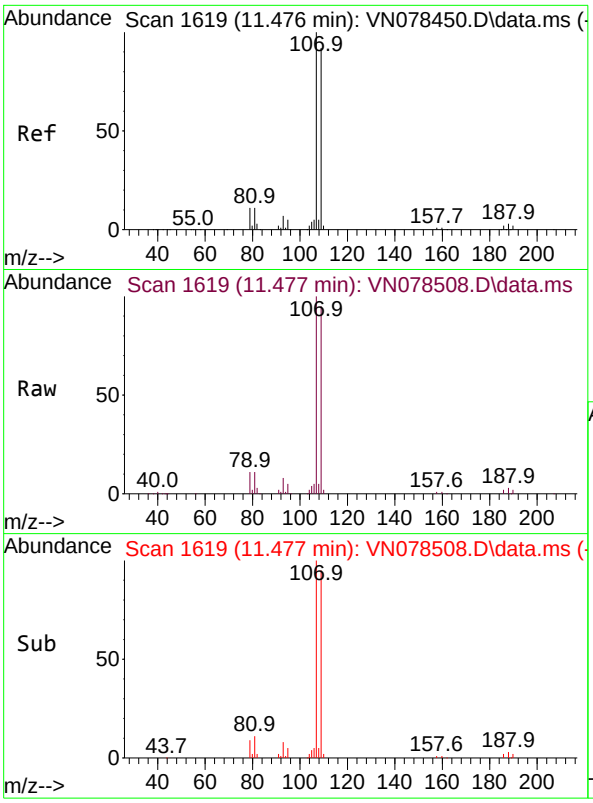


#60
Dibromochloromethane
Concen: 52.158 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:129 Resp: 330984

Ion	Ratio	Lower	Upper
129	100		
127	78.8	38.6	116.0

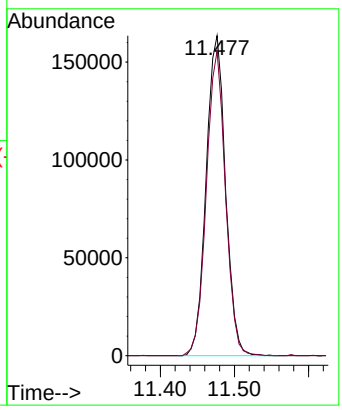




#61
1,2-Dibromoethane
Concen: 50.236 ug/l
RT: 11.477 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:107 Resp: 29746

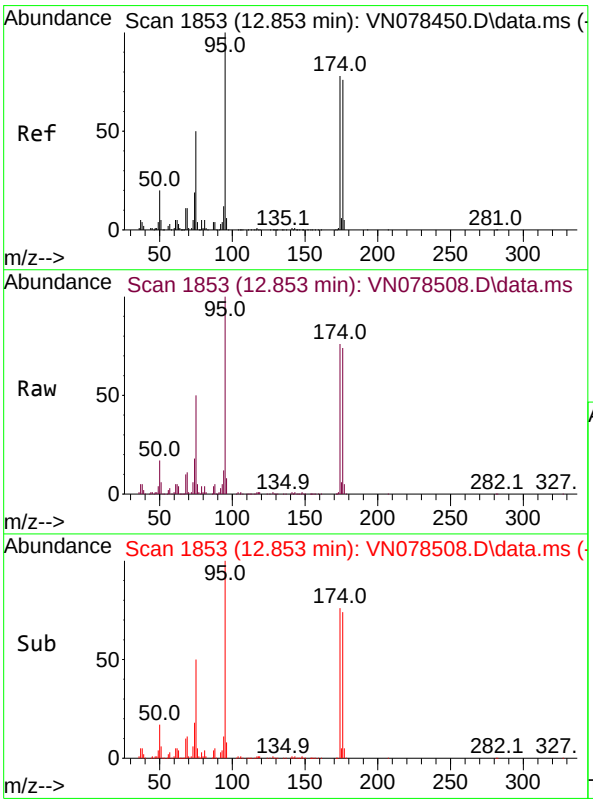
Ion	Ratio	Lower	Upper
107	100		
109	93.6	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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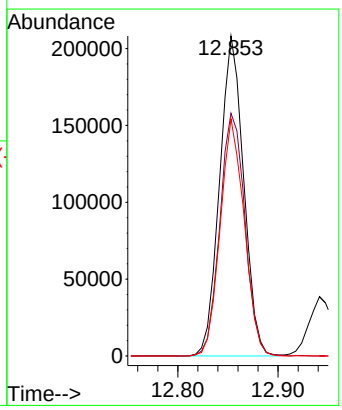
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

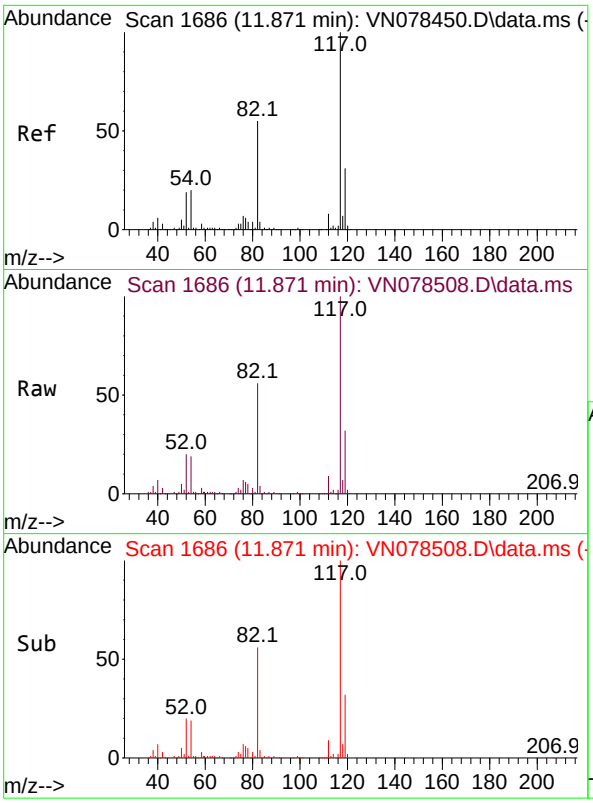


#62
4-Bromofluorobenzene
Concen: 54.065 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 95 Resp: 346188

Ion	Ratio	Lower	Upper
95	100		
174	79.1	0.0	143.8
176	74.1	0.0	135.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

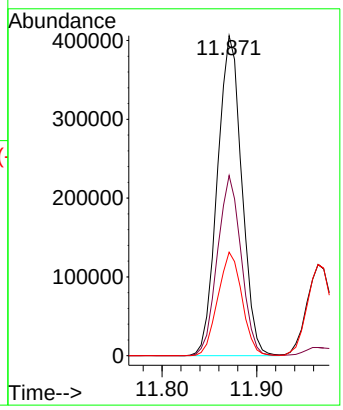
Tgt Ion:117 Resp: 72566

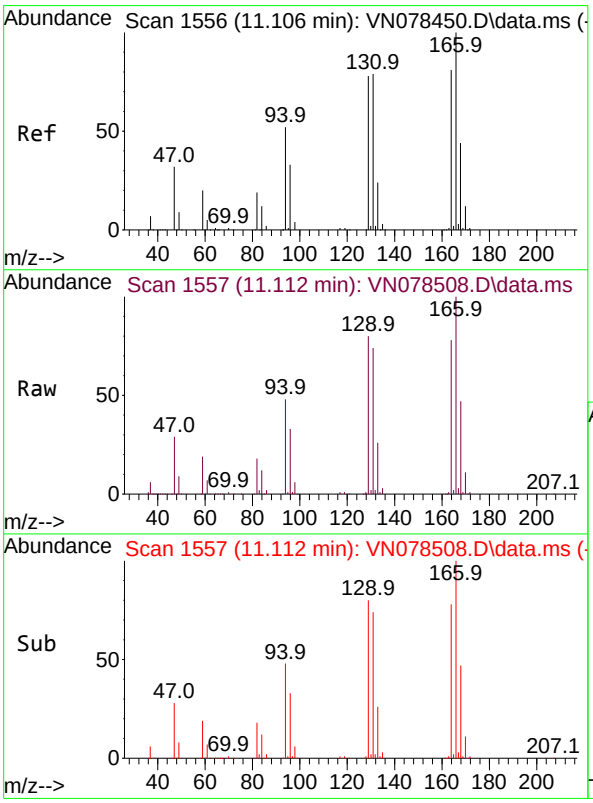
Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.0	66.0
119	32.4	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

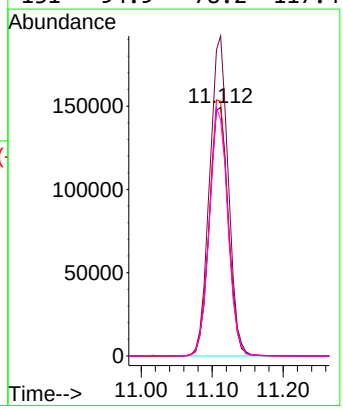


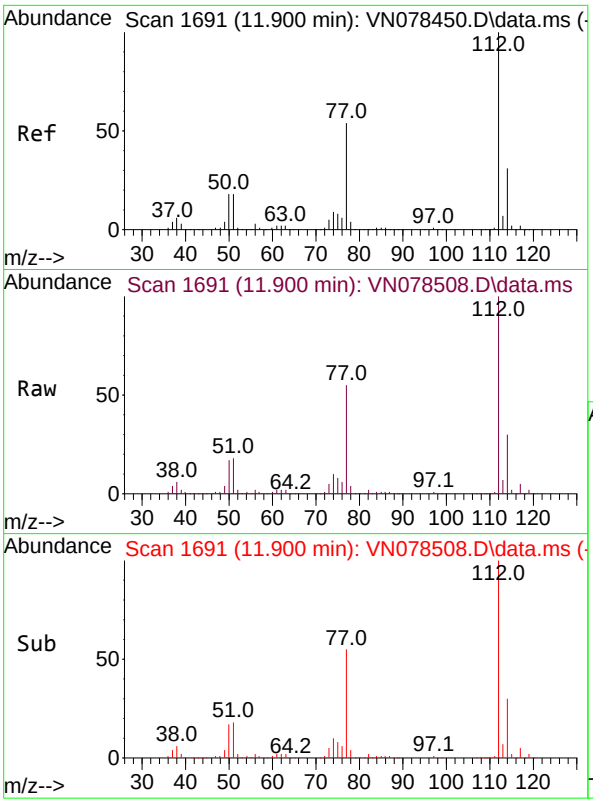


#64
Tetrachloroethene
Concen: 50.564 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:164 Resp: 275866

Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.4	152.0
129	102.5	82.4	123.6
131	94.9	78.2	117.4





#65
Chlorobenzene
Concen: 49.139 ug/l
RT: 11.900 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

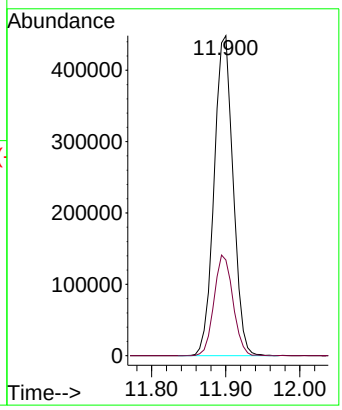
Tgt Ion:112 Resp: 79704

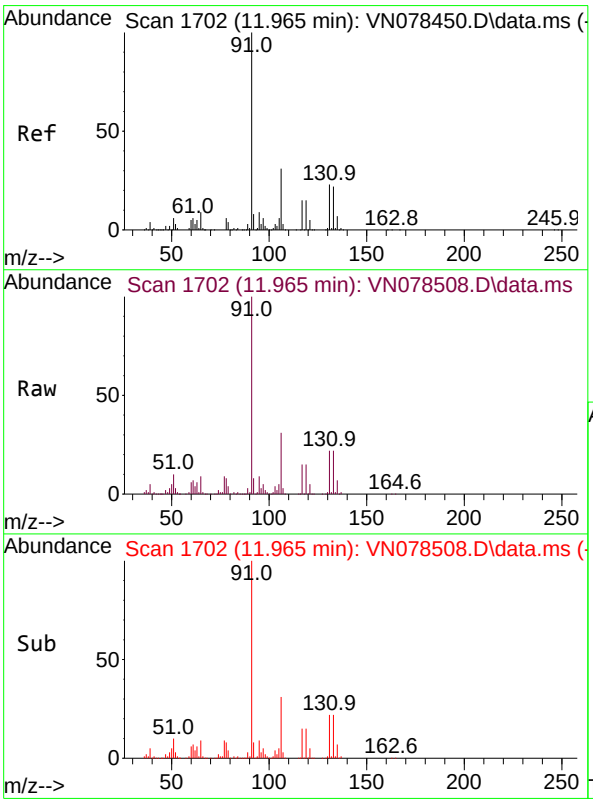
Ion	Ratio	Lower	Upper
112	100		
114	29.9	25.0	37.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

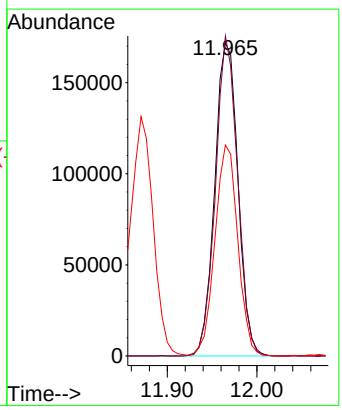


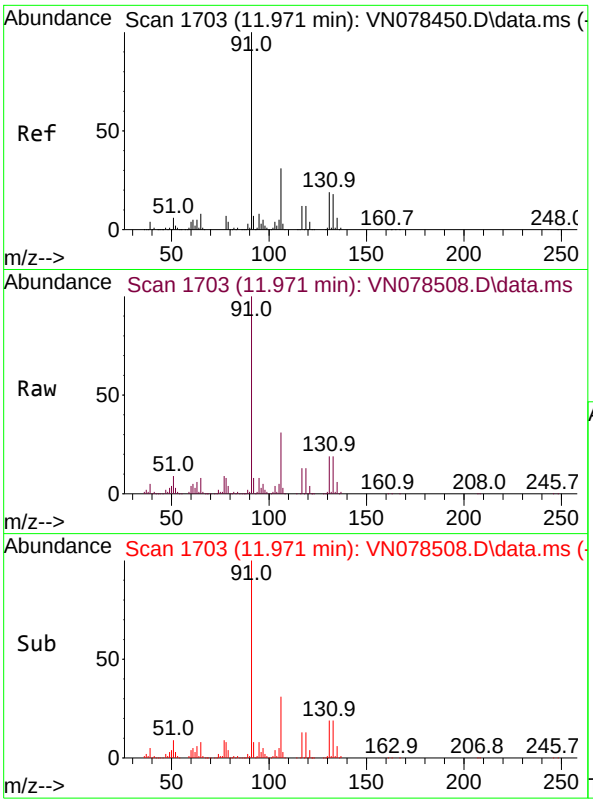


#66
1,1,1,2-Tetrachloroethane
Concen: 49.504 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:131 Resp: 308901

Ion	Ratio	Lower	Upper
131	100		
133	97.5	46.4	139.1
119	66.4	34.1	102.2

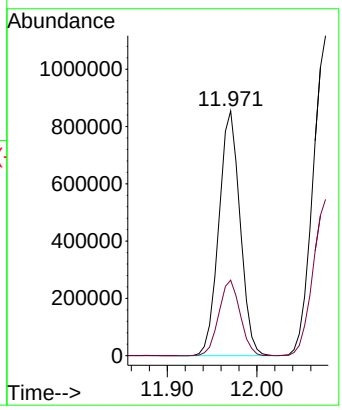




#67
Ethyl Benzene
Concen: 51.135 ug/l
RT: 11.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 91 Resp: 140199

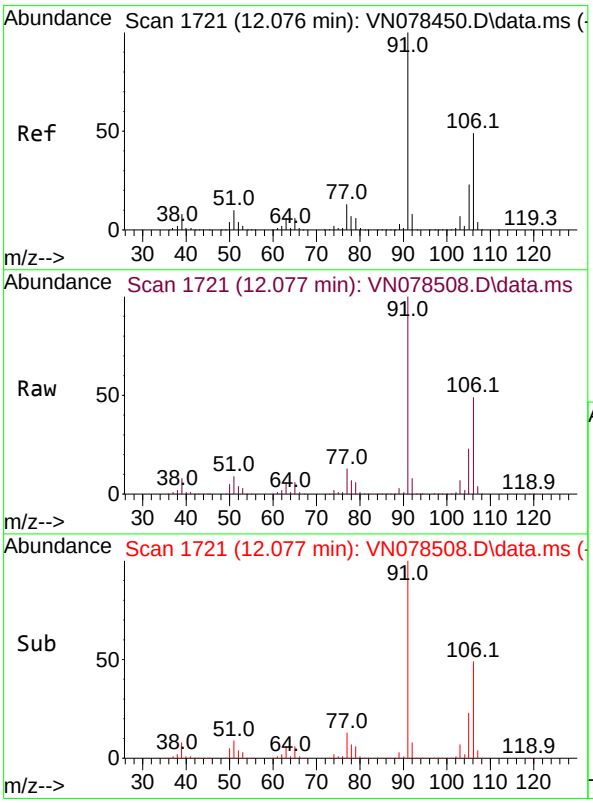
Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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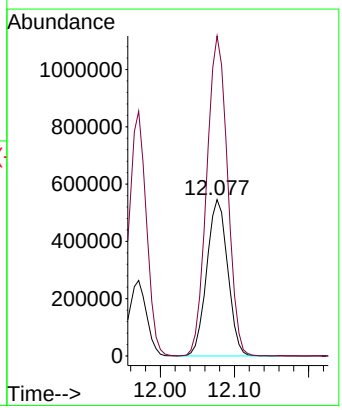
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

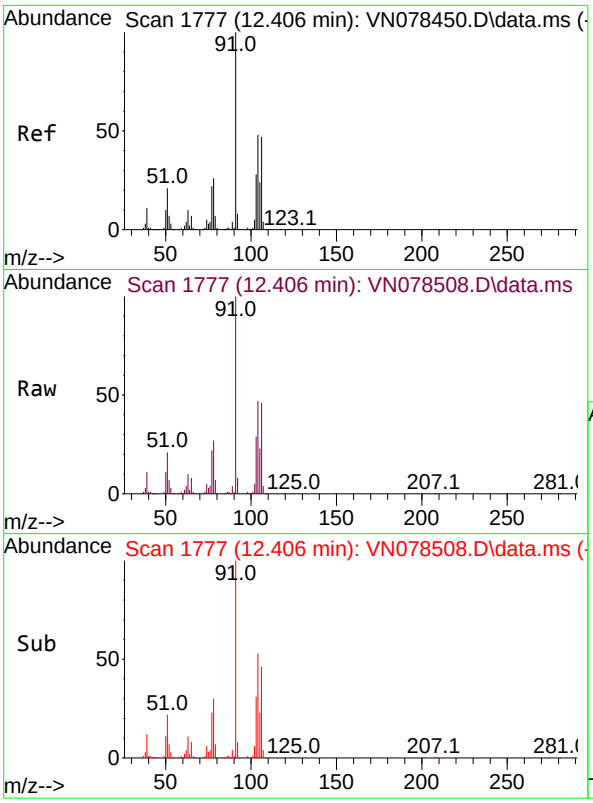


#68
m/p-Xylenes
Concen: 105.519 ug/l
RT: 12.077 min Scan# 1721
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:106 Resp: 1069668

Ion	Ratio	Lower	Upper
106	100		
91	203.3	159.6	239.4





#69
o-Xylene
Concen: 51.188 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

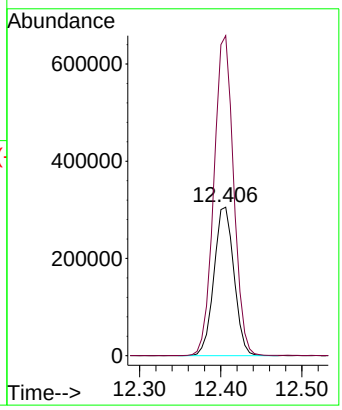
Tgt Ion:106 Resp: 52411

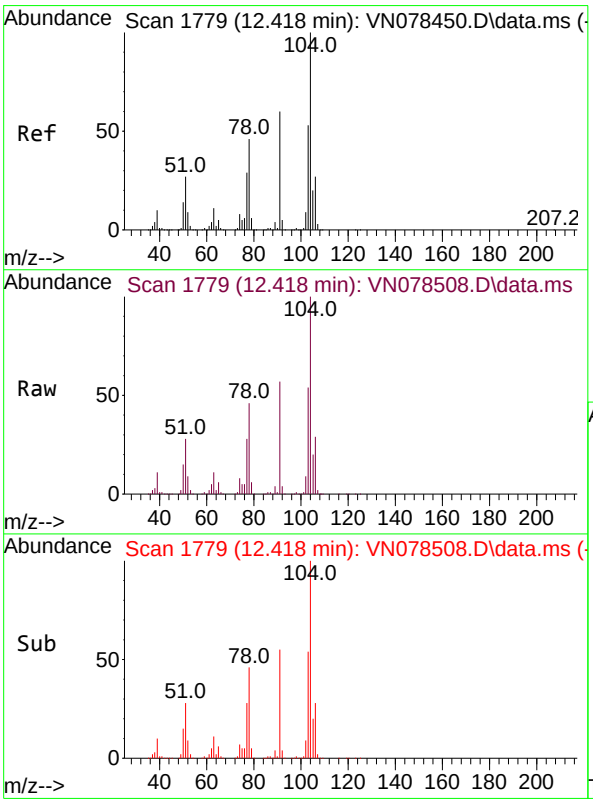
Ion	Ratio	Lower	Upper
106	100		
91	212.8	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

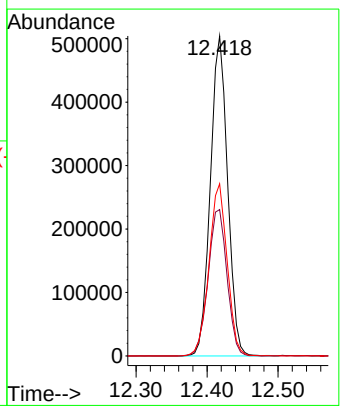


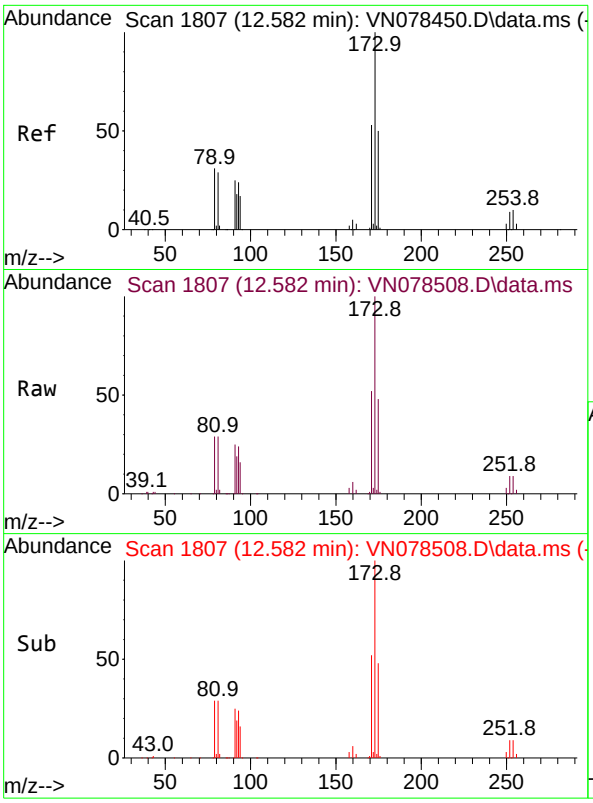


#70
Styrene
Concen: 53.010 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:104 Resp: 849156

Ion	Ratio	Lower	Upper
104	100		
78	50.2	39.5	59.3
103	56.9	43.2	64.8

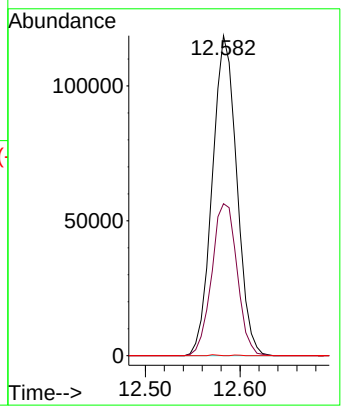




#71
Bromoform
Concen: 50.372 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:173 Resp: 21287

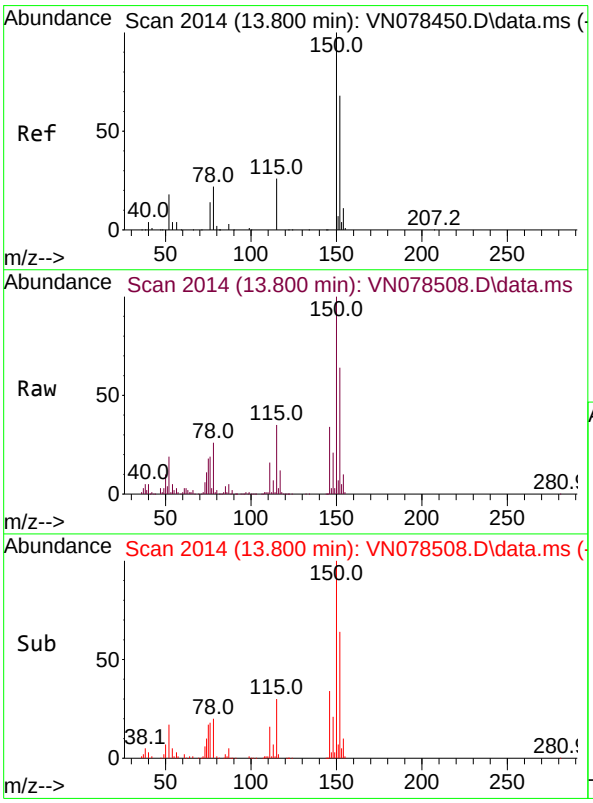
Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.3	73.0
254	0.1	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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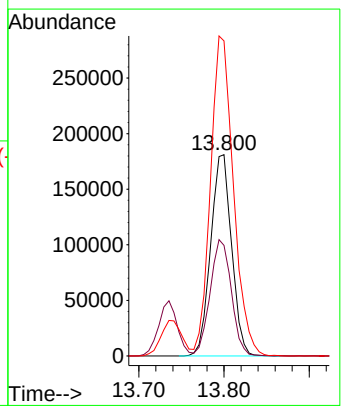
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

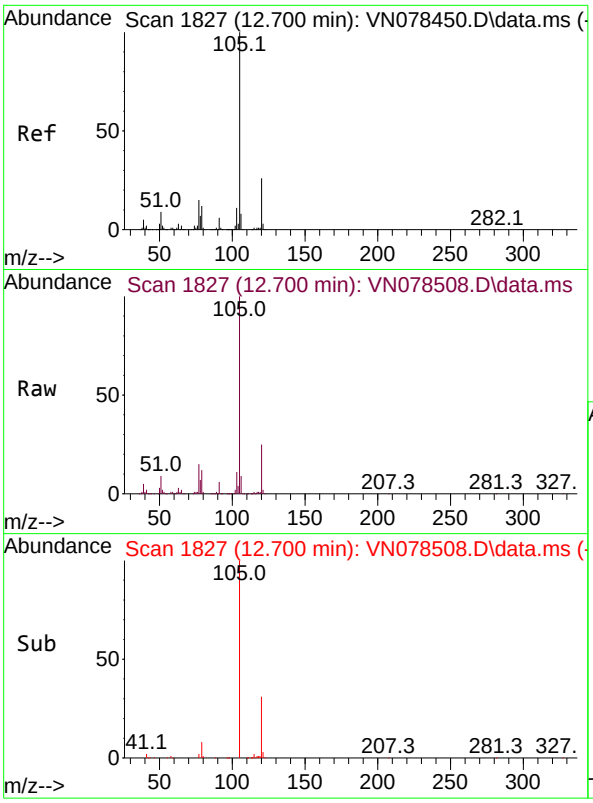


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:152 Resp: 308560

Ion	Ratio	Lower	Upper
152	100		
115	58.4	32.3	96.8
150	173.9	0.0	355.8





#73
Isopropylbenzene
Concen: 45.116 ug/l
RT: 12.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

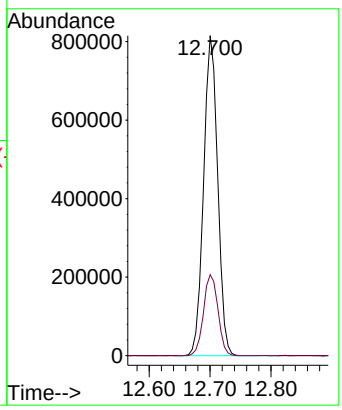
Tgt Ion:105 Resp: 130807

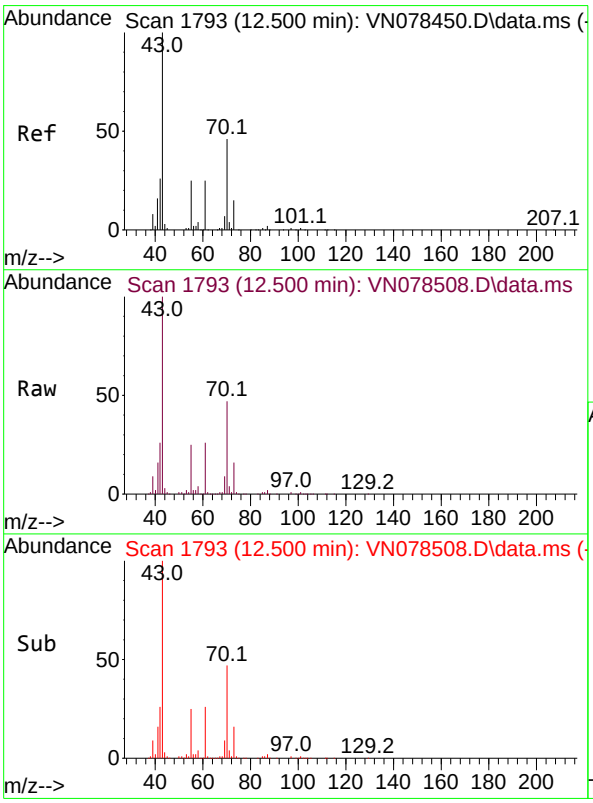
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

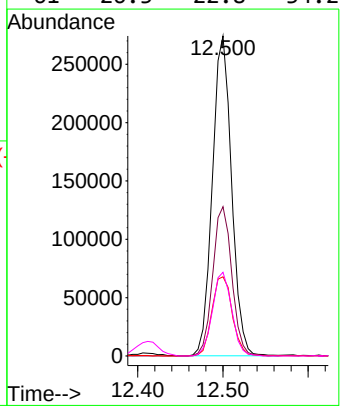


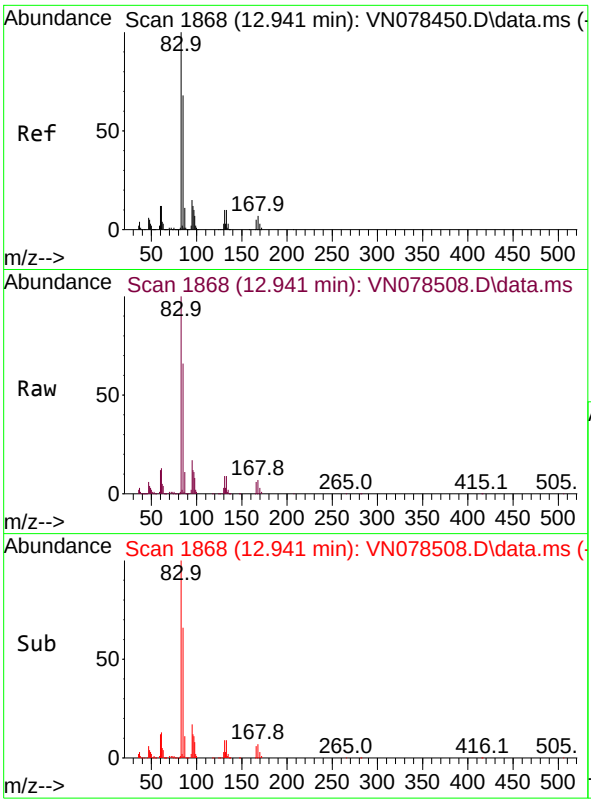


#74
N-amyl acetate
Concen: 42.924 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 43 Resp: 428884

Ion	Ratio	Lower	Upper
43	100		
70	46.5	43.4	65.2
55	26.3	21.4	32.0
61	26.3	22.8	34.2

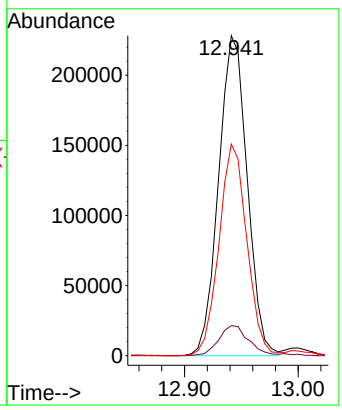




#75
1,1,2,2-Tetrachloroethane
Concen: 49.277 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 83 Resp: 39940

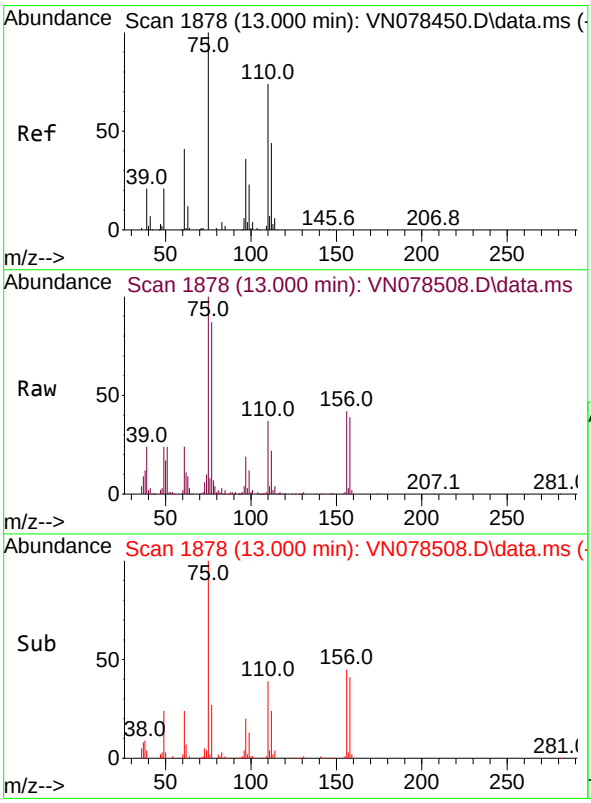
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	64.5	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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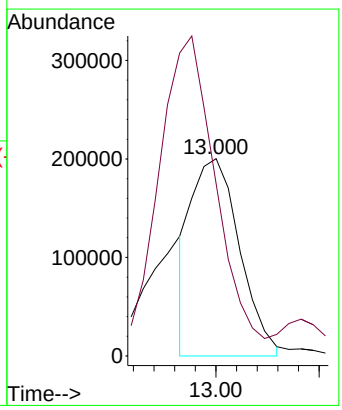
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

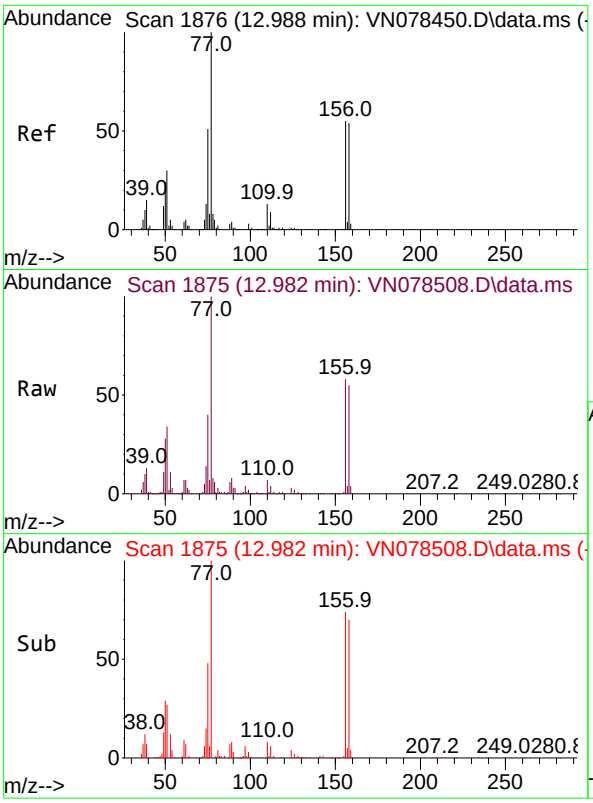


#76
1,2,3-Trichloropropane
Concen: 43.524 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 324617

Ion	Ratio	Lower	Upper
75	100		
77	195.2	84.5	253.5

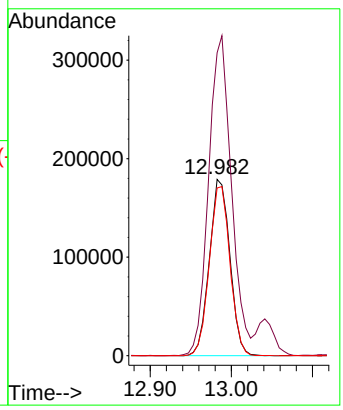




#77
Bromobenzene
Concen: 49.930 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:156 Resp: 31482

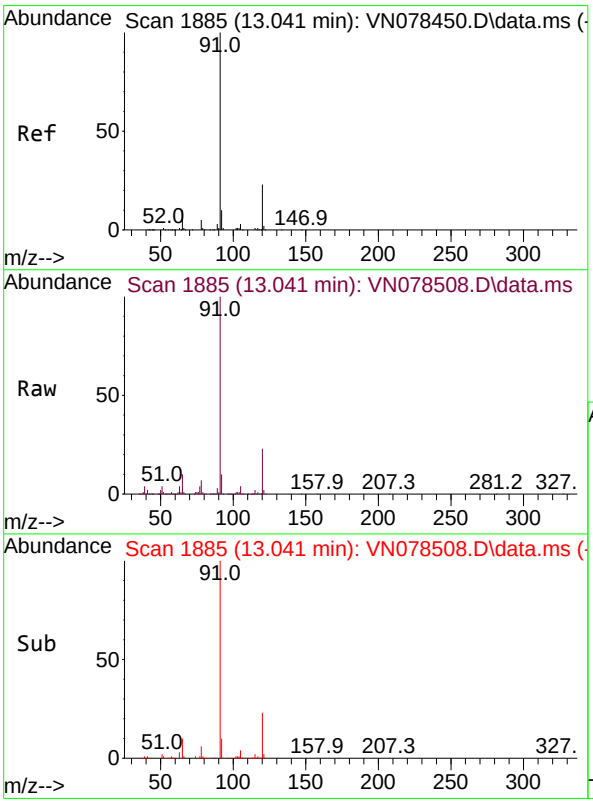
Ion	Ratio	Lower	Upper
156	100		
77	201.2	107.7	323.3
158	96.6	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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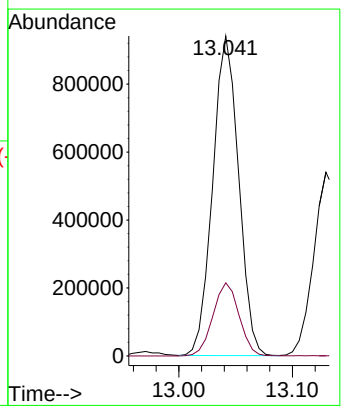
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

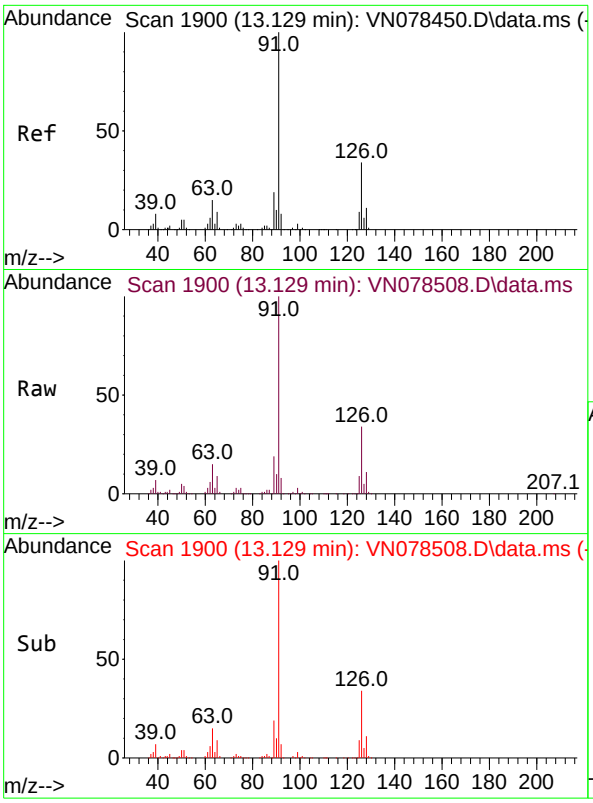


#78
n-propylbenzene
Concen: 48.036 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 91 Resp: 1489467

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4

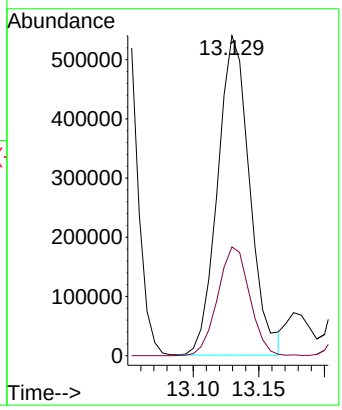




#79
2-Chlorotoluene
Concen: 45.156 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 91 Resp: 91711

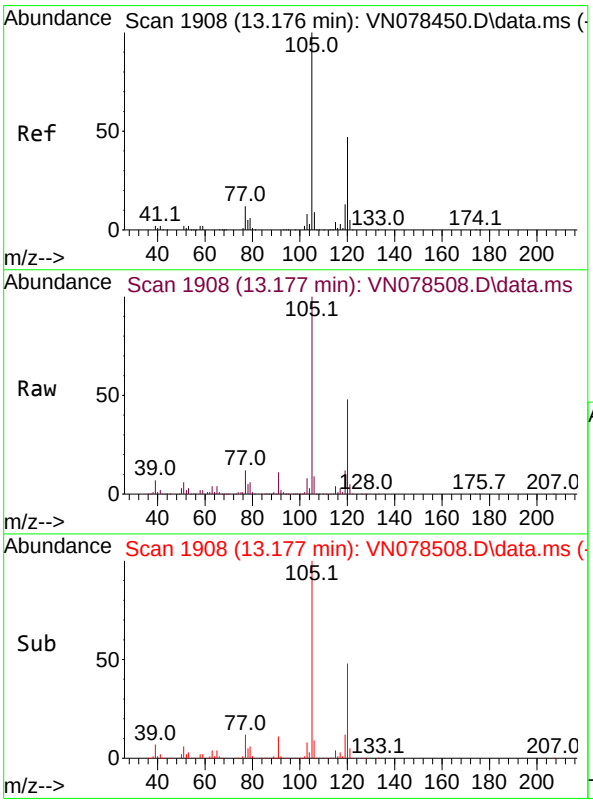
Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

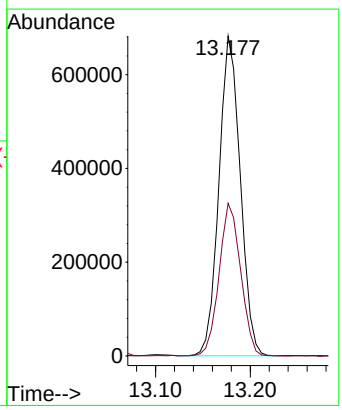
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

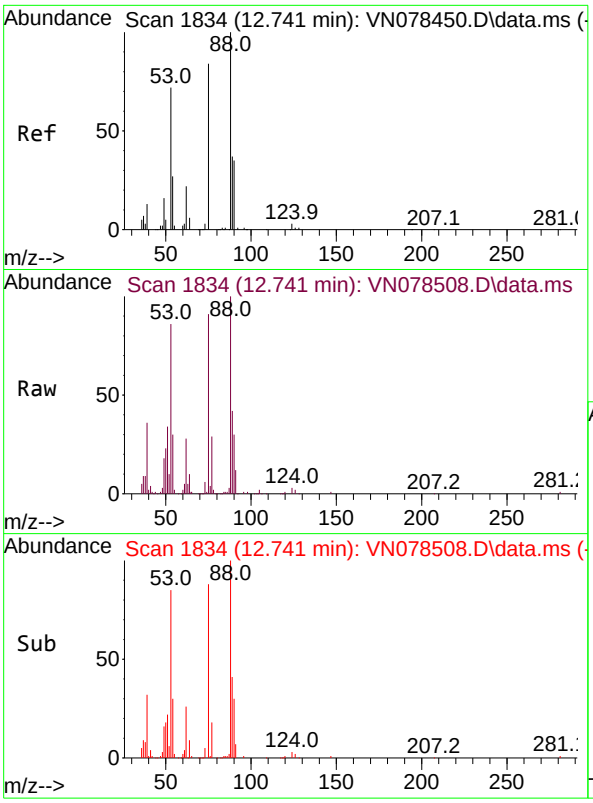


#80
1,3,5-Trimethylbenzene
Concen: 46.638 ug/l
RT: 13.177 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:105 Resp: 1068406

Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.1	72.3

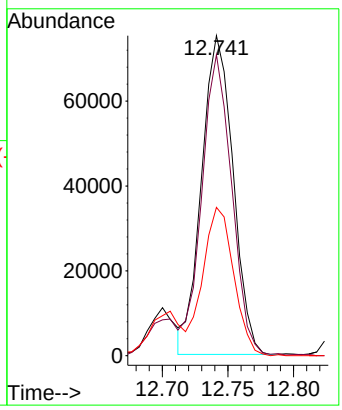




#81
trans-1,4-Dichloro-2-butene
Concen: 44.109 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 12519

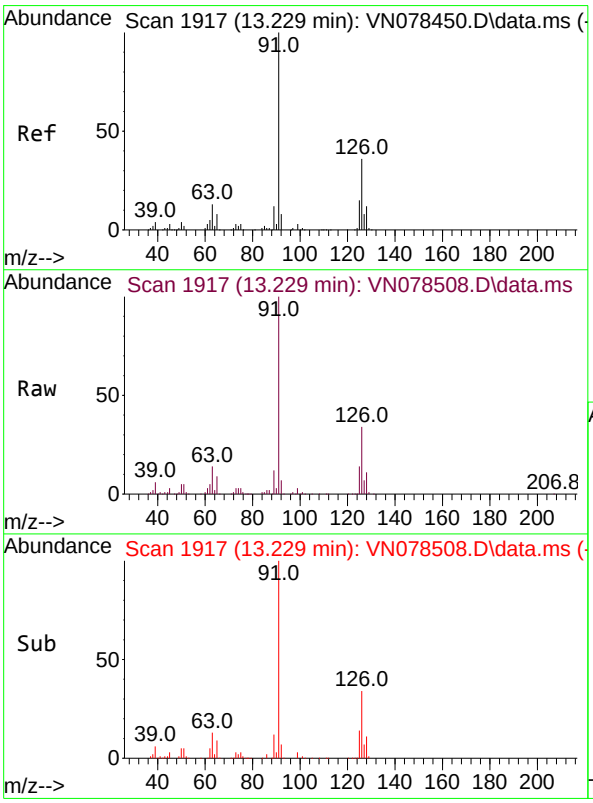
Ion	Ratio	Lower	Upper
75	100		
53	90.8	67.4	101.2
89	45.5	38.8	58.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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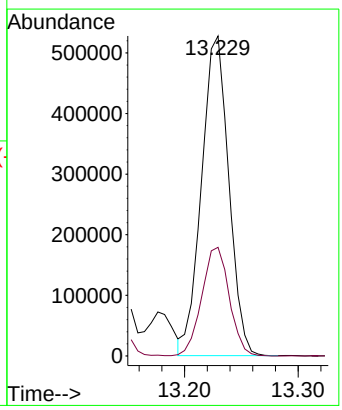
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

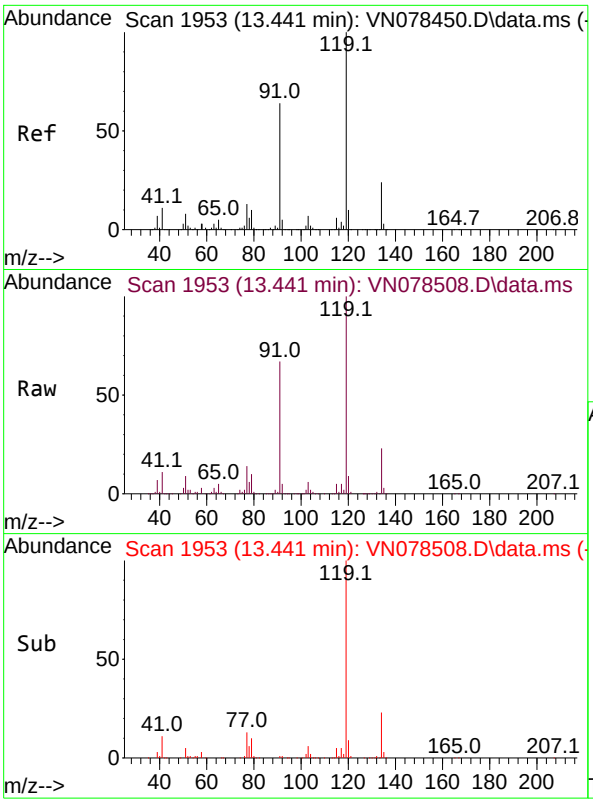


#82
4-Chlorotoluene
Concen: 46.390 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 91 Resp: 878939

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.0

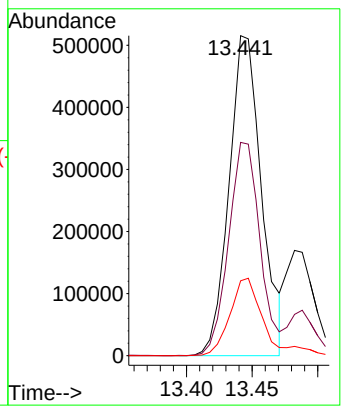




#83
tert-Butylbenzene
Concen: 45.626 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:119 Resp: 88741

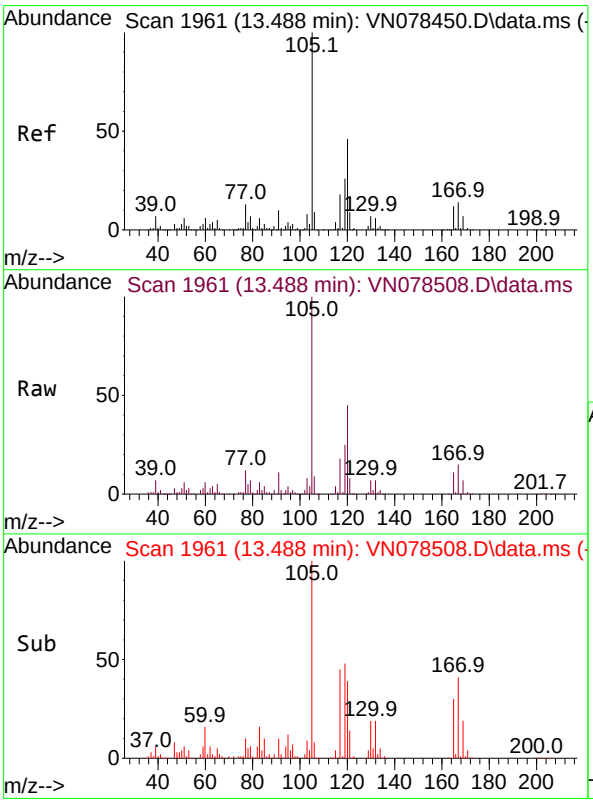
Ion	Ratio	Lower	Upper
119	100		
91	64.8	33.9	101.7
134	25.2	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

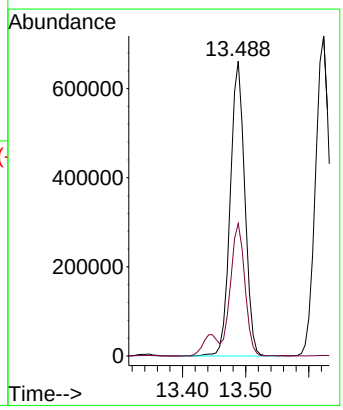
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

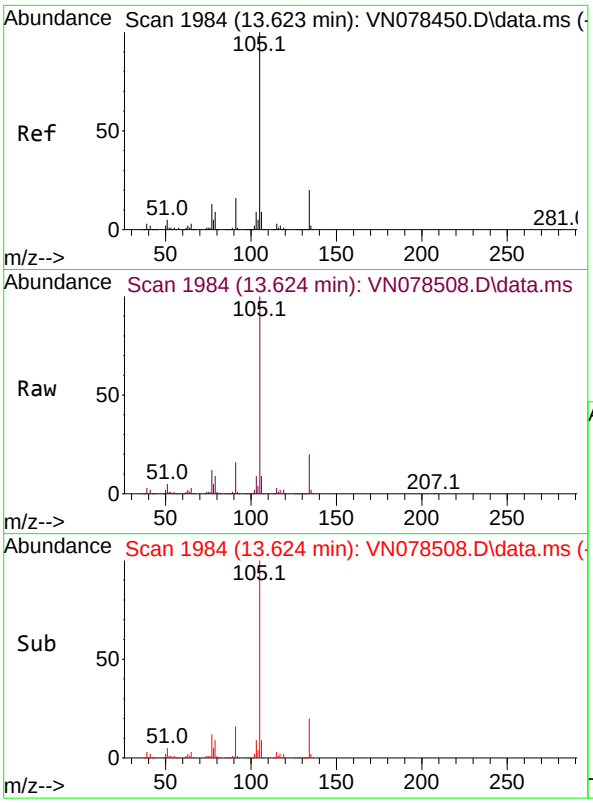


#84
1,2,4-Trimethylbenzene
Concen: 47.477 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:105 Resp: 1056446

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.0	66.0





#85
sec-Butylbenzene
Concen: 46.440 ug/l
RT: 13.624 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

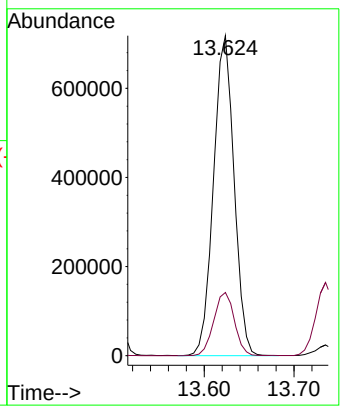
Tgt Ion:105 Resp: 114169

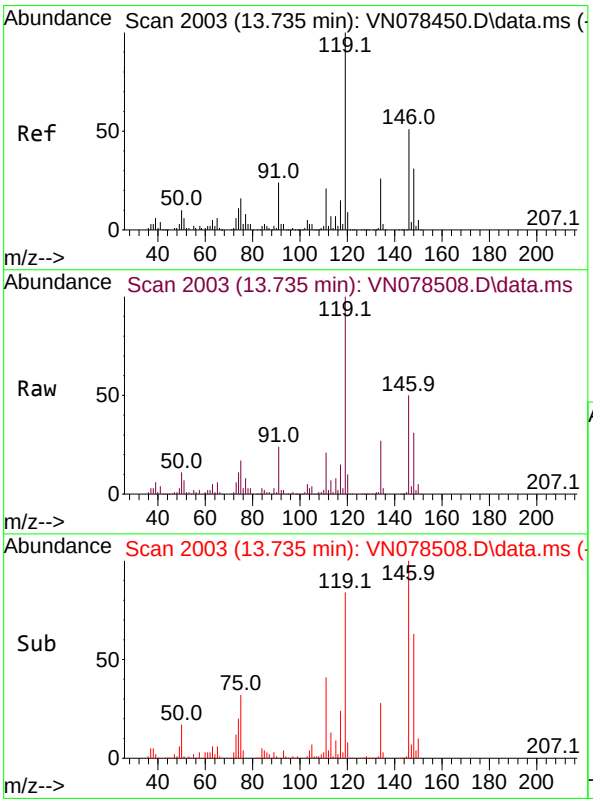
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

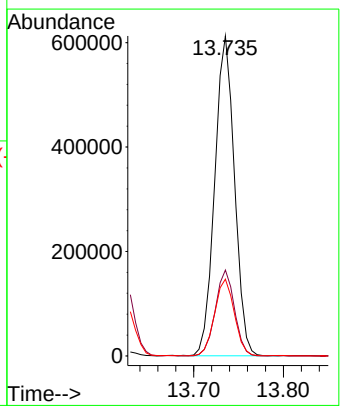


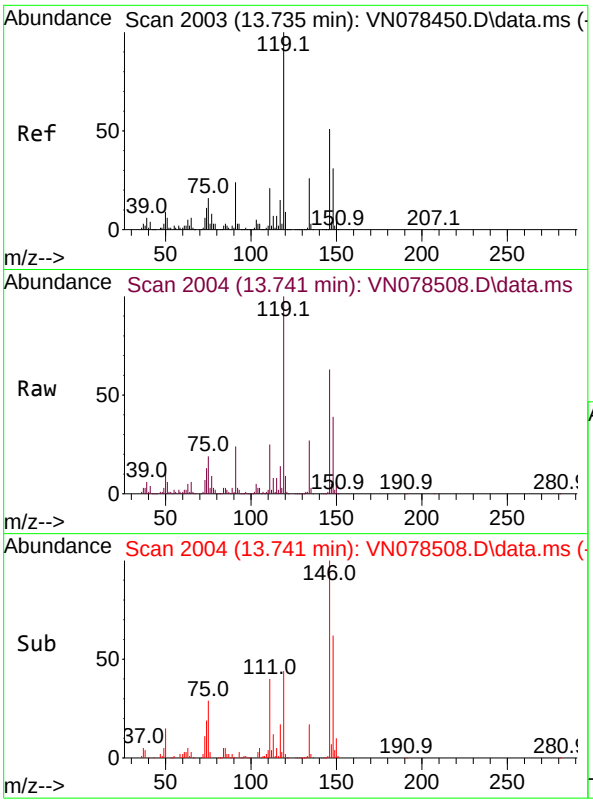


#86
p-Isopropyltoluene
Concen: 47.428 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:119 Resp: 936237

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	23.9	12.4	37.2

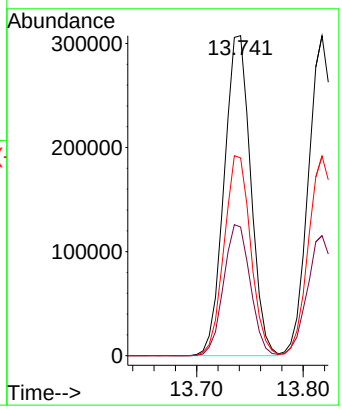




#87
1,3-Dichlorobenzene
Concen: 47.911 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:146 Resp: 53327

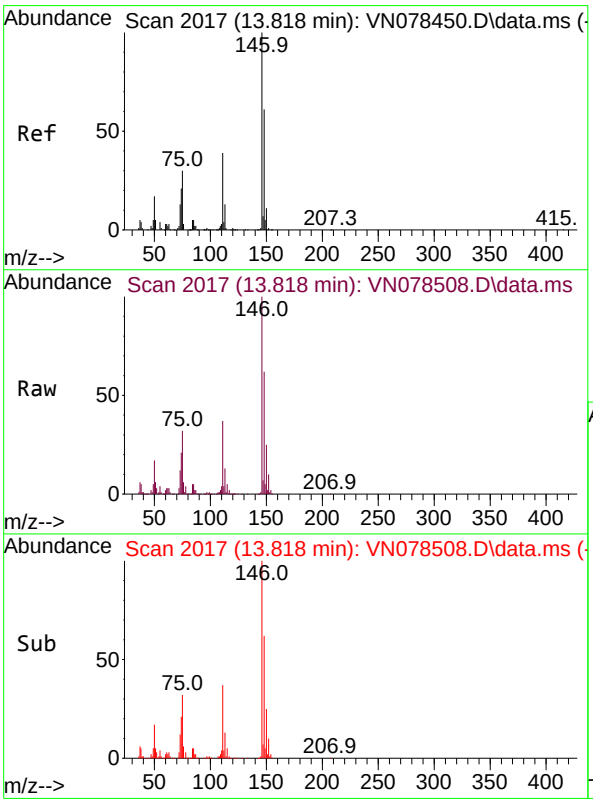
Ion	Ratio	Lower	Upper
146	100		
111	41.1	22.1	66.3
148	62.5	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

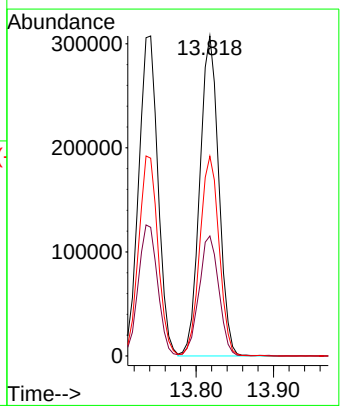
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

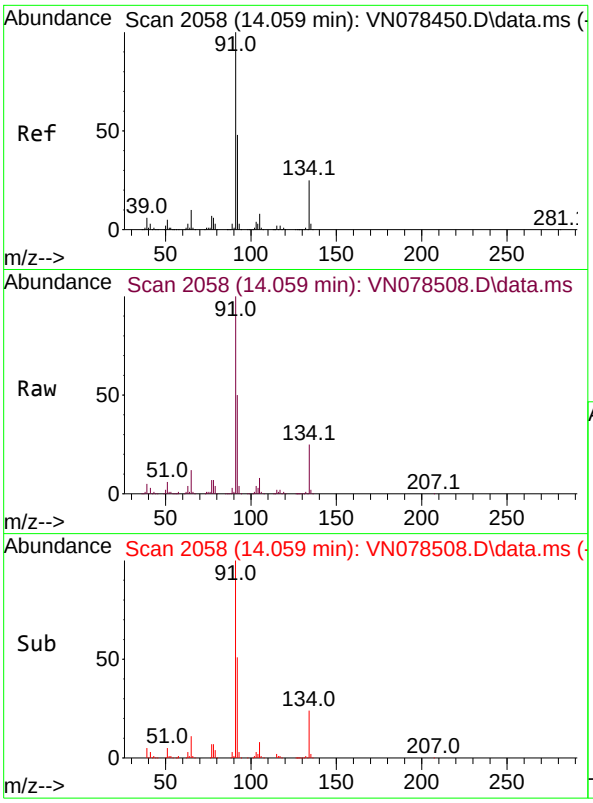


#88
1,4-Dichlorobenzene
Concen: 46.545 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:146 Resp: 521825

Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.6	61.8
148	63.1	31.6	94.8





#89
n-Butylbenzene
Concen: 50.141 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

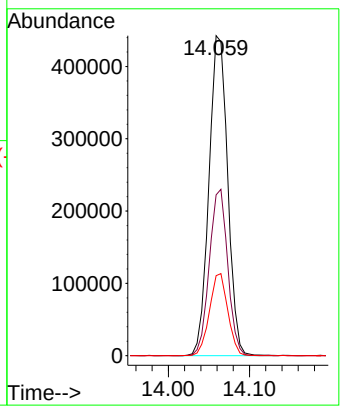
Tgt Ion: 91 Resp: 70820

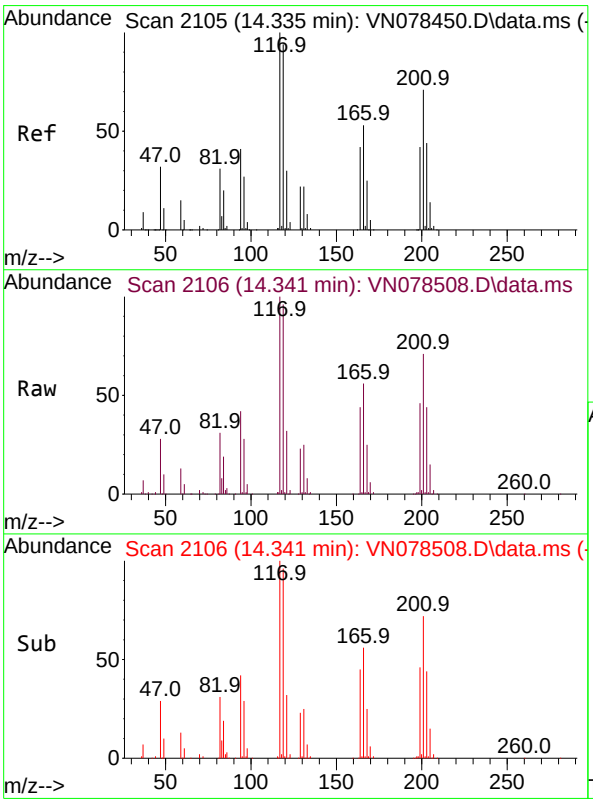
Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.4	79.0
134	25.2	12.6	37.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

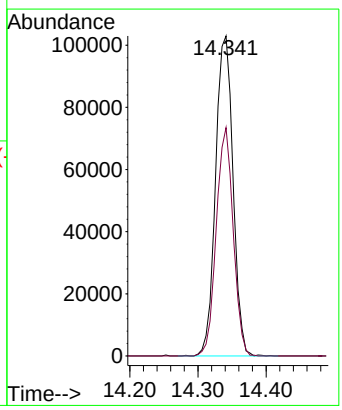


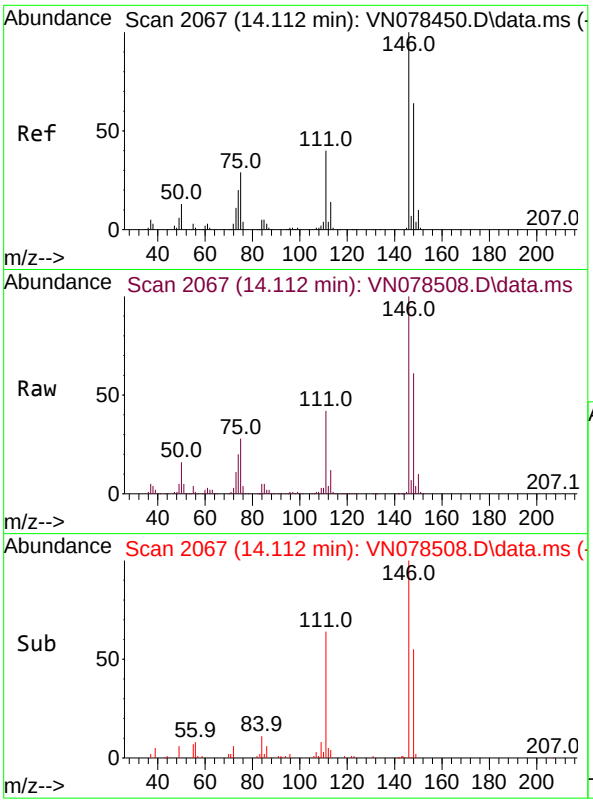


#90
Hexachloroethane
Concen: 50.521 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:117 Resp: 183271

Ion	Ratio	Lower	Upper
117	100		
201	69.3	29.3	88.0

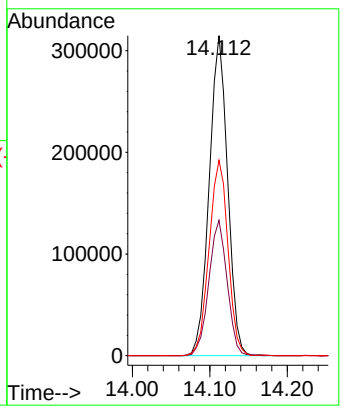




#91
1,2-Dichlorobenzene
Concen: 46.869 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:146 Resp: 51916

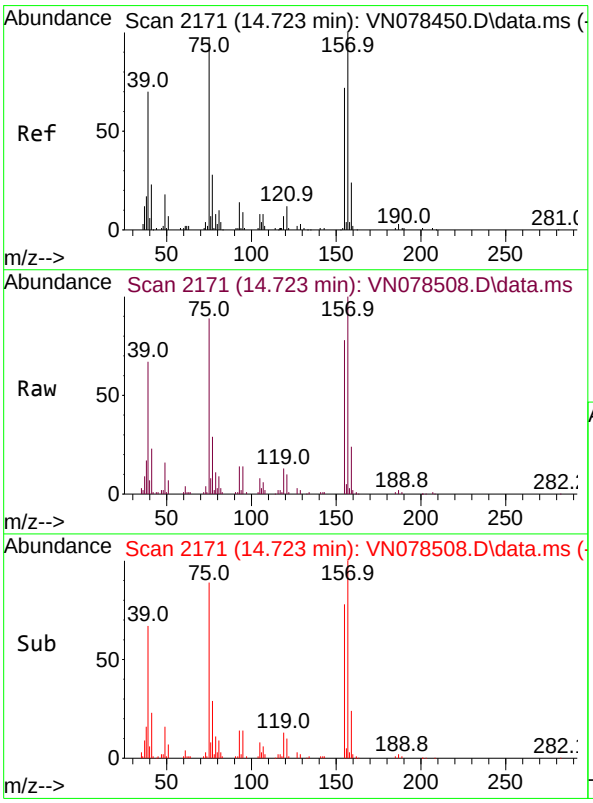
Ion	Ratio	Lower	Upper
146	100		
111	42.1	22.0	66.0
148	62.8	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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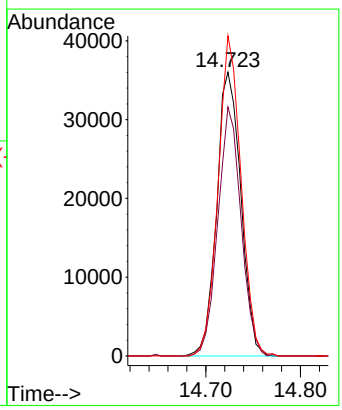
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

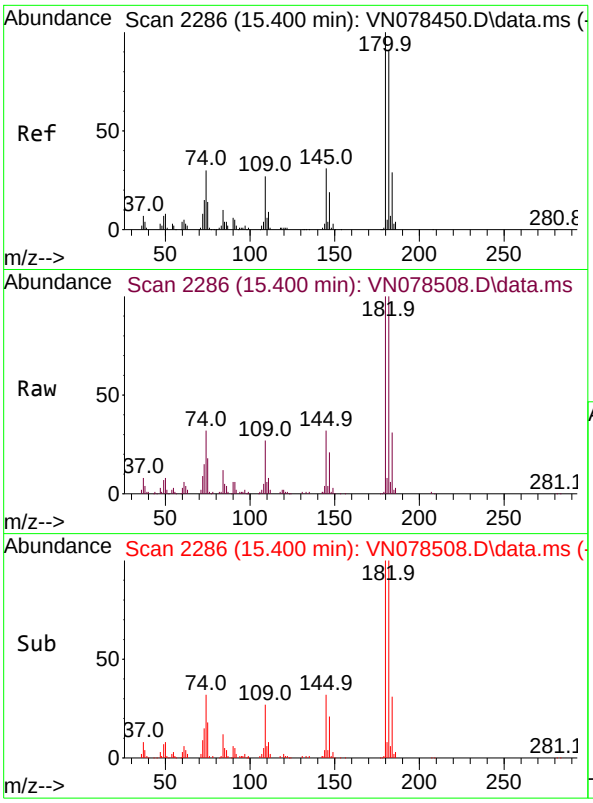


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.767 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion: 75 Resp: 63751

Ion	Ratio	Lower	Upper
75	100		
155	84.3	39.1	117.2
157	107.3	50.3	150.9

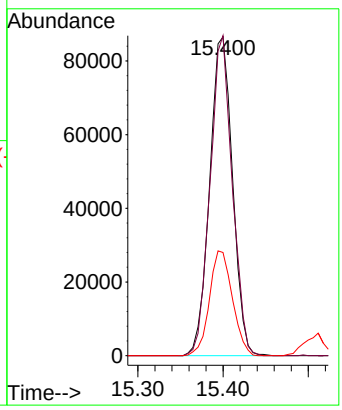




#93
1,2,4-Trichlorobenzene
Concen: 45.620 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

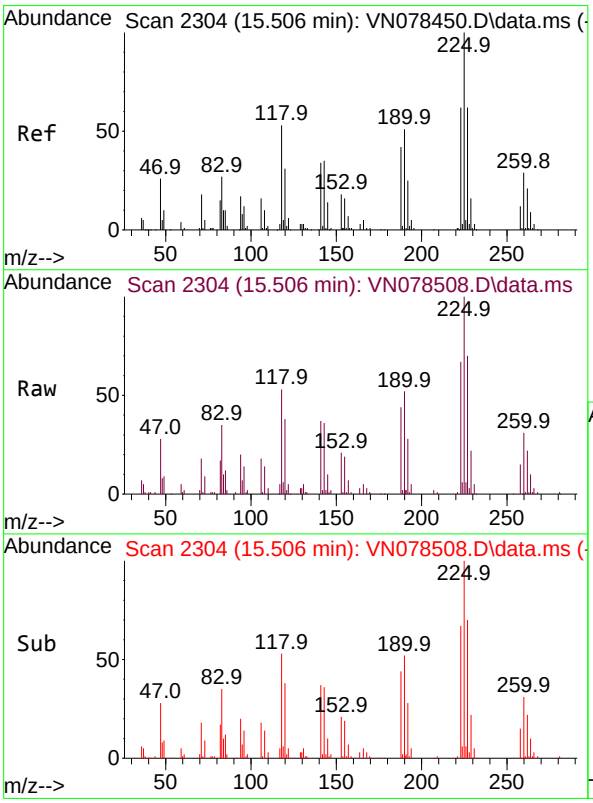
Tgt Ion:180 Resp: 16127

Ion	Ratio	Lower	Upper
180	100		
182	97.0	46.1	138.2
145	33.0	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

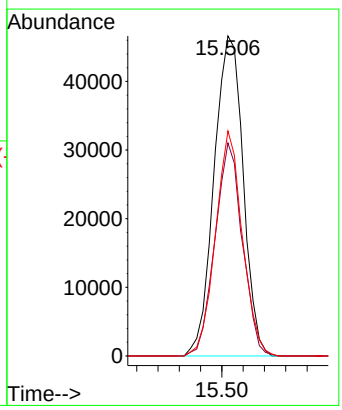
Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

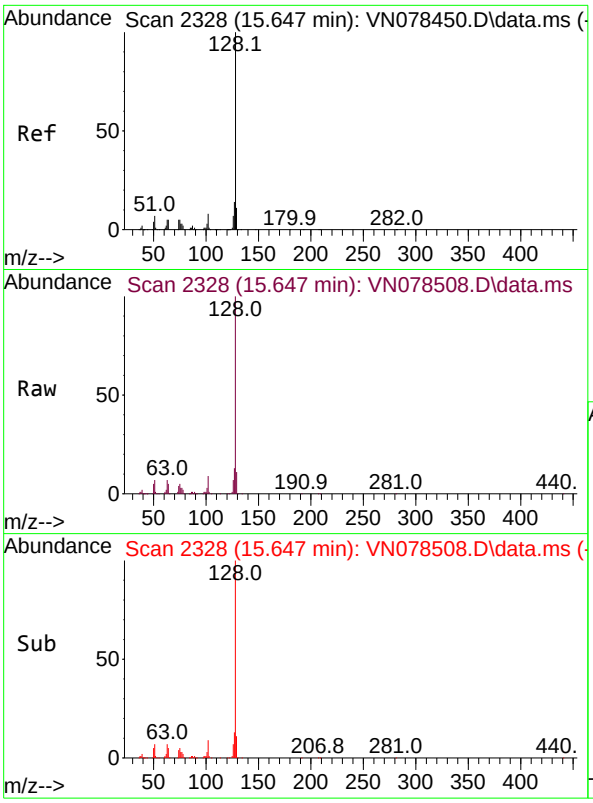


#94
Hexachlorobutadiene
Concen: 48.178 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:225 Resp: 88385

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.3	93.8
227	65.0	31.9	95.9

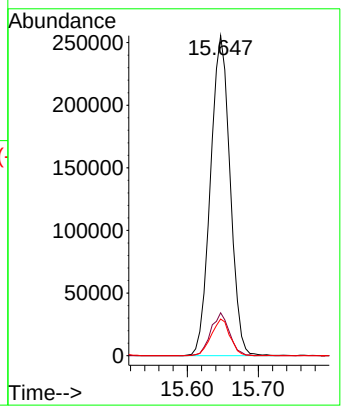




#95
Naphthalene
Concen: 40.506 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:128 Resp: 48953

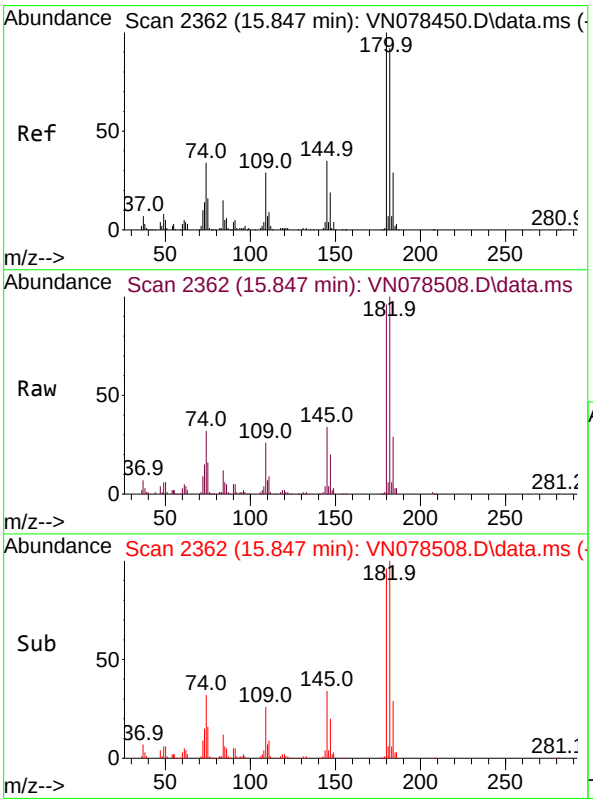
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.0	15.0
129	11.0	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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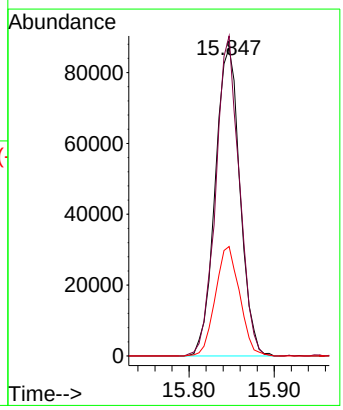
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#96
1,2,3-Trichlorobenzene
Concen: 43.368 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078508.D
Acq: 14 Jul 2023 09:12

Tgt Ion:180 Resp: 176290

Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.2	138.6
145	34.7	17.5	52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.613	0.519	15.3	83	0.00
3	P	Chloromethane	0.666	0.662	0.6	101	0.00
4	C	Vinyl Chloride	0.862	0.795	7.8#	92	0.00
5	T	Bromomethane	0.616	0.521	15.4	86	0.00
6	T	Chloroethane	0.583	0.519	11.0	86	0.00
7	T	Trichlorofluoromethane	1.030	0.958	7.0	92	0.00
8	T	Diethyl Ether	0.343	0.324	5.5	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.527	3.3	92	0.00
10	T	Methyl Iodide	0.749	0.712	4.9	89	0.00
11	T	Tert butyl alcohol	0.103	0.092	10.7	85	0.00
12	CM	1,1-Dichloroethene	0.528	0.486	8.0#	88	0.00
13	T	Acrolein	0.102	0.089	12.7	81	0.00
14	T	Allyl chloride	0.721	0.665	7.8	89	0.00
15	T	Acrylonitrile	0.261	0.248	5.0	88	0.00
16	T	Acetone	0.209	0.210	-0.5	100	0.00
17	T	Carbon Disulfide	1.526	1.292	15.3	84	0.00
18	T	Methyl Acetate	0.884	0.808	8.6	88	0.00
19	T	Methyl tert-butyl Ether	1.738	1.682	3.2	89	0.00
20	T	Methylene Chloride	0.674	0.592	12.2	91	0.00
21	T	trans-1,2-Dichloroethene	0.595	0.552	7.2	88	0.00
22	T	Diisopropyl ether	1.614	1.632	-1.1	93	0.00
23	T	Vinyl Acetate	1.026	1.011	1.5	88	0.00
24	P	1,1-Dichloroethane	1.088	1.033	5.1	90	0.00
25	T	2-Butanone	0.329	0.320	2.7	91	0.00
26	T	2,2-Dichloropropane	0.890	0.909	-2.1	97	0.00
27	T	cis-1,2-Dichloroethene	0.688	0.660	4.1	90	0.00
28	T	Bromochloromethane	0.512	0.509	0.6	93	0.00
29	T	Tetrahydrofuran	0.216	0.205	5.1	87	0.00
30	C	Chloroform	1.132	1.126	0.5#	92	0.00
31	T	Cyclohexane	0.906	0.825	8.9	93	0.00
32	T	1,1,1-Trichloroethane	1.015	0.999	1.6	91	0.00
33	S	1,2-Dichloroethane-d4	0.670	0.687	-2.5	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35	S	Dibromofluoromethane	0.339	0.357	-5.3	97	0.00
36	T	1,1-Dichloropropene	0.490	0.474	3.3	89	0.00
37	T	Ethyl Acetate	0.409	0.387	5.4	85	0.00
38	T	Carbon Tetrachloride	0.533	0.529	0.8	90	0.00
39	T	Methylcyclohexane	0.447	0.451	-0.9	91	0.00
40	TM	Benzene	1.452	1.430	1.5	89	0.00
41	T	Methacrylonitrile	0.208	0.203	2.4	89	0.00
42	TM	1,2-Dichloroethane	0.494	0.491	0.6	93	0.00
43	T	Isopropyl Acetate	0.673	0.670	0.4	89	0.00
44	TM	Trichloroethene	0.391	0.375	4.1	91	0.00
45	C	1,2-Dichloropropane	0.368	0.366	0.5#	92	0.00
46	T	Dibromomethane	0.259	0.266	-2.7	92	0.00
47	T	Bromodichloromethane	0.519	0.535	-3.1	93	0.00
48	T	Methyl methacrylate	0.312	0.314	-0.6	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.007	0.0	89	0.00
50	S	Toluene-d8	1.282	1.330	-3.7	95	0.00
51	T	4-Methyl-2-Pentanone	0.400	0.408	-2.0	89	0.00
52	CM	Toluene	0.900	0.925	-2.8#	92	0.00
53	T	t-1,3-Dichloropropene	0.532	0.560	-5.3	93	0.00
54	T	cis-1,3-Dichloropropene	0.567	0.594	-4.8	90	0.00
55	T	1,1,2-Trichloroethane	0.355	0.359	-1.1	92	0.00
56	T	Ethyl methacrylate	0.496	0.512	-3.2	87	0.00
57	T	1,3-Dichloropropane	0.603	0.593	1.7	89	0.00
58	T	2-Chloroethyl Vinyl ether	0.177	0.196	-10.7	95	0.00
59	T	2-Hexanone	0.284	0.290	-2.1	88	0.00
60	T	Dibromochloromethane	0.391	0.408	-4.3	91	0.00
61	T	1,2-Dibromoethane	0.365	0.367	-0.5	90	0.00
62	S	4-Bromofluorobenzene	0.395	0.427	-8.1	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64	T	Tetrachloroethene	0.376	0.380	-1.1	93	0.00
65	PM	Chlorobenzene	1.118	1.098	1.8	92	0.00
66	T	1,1,1,2-Tetrachloroethane	0.430	0.426	0.9	91	0.00
67	C	Ethyl Benzene	1.889	1.932	-2.3#	91	0.00
68	T	m/p-Xylenes	0.698	0.737	-5.6	92	0.00
69	T	o-Xylene	0.705	0.722	-2.4	92	0.00
70	T	Styrene	1.104	1.170	-6.0	92	0.00
71	P	Bromoform	0.291	0.293	-0.7	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
73	T	Isopropylbenzene	4.698	4.239	9.8	91	0.00
74	T	N-amyl acetate	1.619	1.390	14.1	85	0.00
75	P	1,1,2,2-Tetrachloroethane	1.586	1.294	18.4	88	0.00
76	T	1,2,3-Trichloropropane	1.209	1.052	13.0	88	0.00
77	T	Bromobenzene	1.154	1.020	11.6	92	0.00
78	T	n-propylbenzene	5.024	4.827	3.9	94	0.00
79	T	2-Chlorotoluene	3.291	2.972	9.7	92	0.00
80	T	1,3,5-Trimethylbenzene	3.712	3.463	6.7	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.460	0.406	11.7	88	0.00
82	T	4-Chlorotoluene	3.070	2.849	7.2	92	0.00
83	T	tert-Butylbenzene	3.152	2.876	8.8	92	0.00
84	T	1,2,4-Trimethylbenzene	3.606	3.424	5.0	93	0.00
85	T	sec-Butylbenzene	3.984	3.700	7.1	93	0.00
86	T	p-Isopropyltoluene	3.199	3.034	5.2	92	0.00
87	T	1,3-Dichlorobenzene	1.804	1.728	4.2	93	0.00
88	T	1,4-Dichlorobenzene	1.817	1.691	6.9	92	0.00
89	T	n-Butylbenzene	2.289	2.295	-0.3	93	0.00
90	T	Hexachloroethane	0.676	0.594	12.1	96	0.00
91	T	1,2-Dichlorobenzene	1.795	1.683	6.2	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.262	0.207	21.0	85	0.00
93	T	1,2,4-Trichlorobenzene	0.573	0.523	8.7	80	0.00
94	T	Hexachlorobutadiene	0.375	0.286	23.7	83	0.00
95	T	Naphthalene	1.958	1.587	18.9	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.659	0.571	13.4	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	42.345	15.3	83	0.00
3	P	Chloromethane	50.000	49.707	0.6	101	0.00
4	C	Vinyl Chloride	50.000	46.121	7.8#	92	0.00
5	T	Bromomethane	50.000	47.555	4.9	86	0.00
6	T	Chloroethane	50.000	49.766	0.5	86	0.00
7	T	Trichlorofluoromethane	50.000	46.485	7.0	92	0.00
8	T	Diethyl Ether	50.000	47.223	5.6	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.284	3.4	92	0.00
10	T	Methyl Iodide	50.000	47.468	5.1	89	0.00
11	T	Tert butyl alcohol	250.000	223.065	10.8	85	0.00
12	CM	1,1-Dichloroethene	50.000	46.074	7.9#	88	0.00
13	T	Acrolein	250.000	218.442	12.6	81	0.00
14	T	Allyl chloride	50.000	46.148	7.7	89	0.00
15	T	Acrylonitrile	250.000	237.039	5.2	88	0.00
16	T	Acetone	250.000	252.033	-0.8	100	0.00
17	T	Carbon Disulfide	50.000	42.349	15.3	84	0.00
18	T	Methyl Acetate	50.000	45.679	8.6	88	0.00
19	T	Methyl tert-butyl Ether	50.000	48.376	3.2	89	0.00
20	T	Methylene Chloride	50.000	49.438	1.1	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.430	7.1	88	0.00
22	T	Diisopropyl ether	50.000	50.561	-1.1	93	0.00
23	T	Vinyl Acetate	250.000	246.315	1.5	88	0.00
24	P	1,1-Dichloroethane	50.000	47.469	5.1	90	0.00
25	T	2-Butanone	250.000	243.115	2.8	91	0.00
26	T	2,2-Dichloropropane	50.000	51.096	-2.2	97	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.981	4.0	90	0.00
28	T	Bromochloromethane	50.000	49.680	0.6	93	0.00
29	T	Tetrahydrofuran	250.000	237.262	5.1	87	0.00
30	C	Chloroform	50.000	49.707	0.6#	92	0.00
31	T	Cyclohexane	50.000	45.536	8.9	93	0.00
32	T	1,1,1-Trichloroethane	50.000	49.215	1.6	91	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.280	-2.6	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35	S	Dibromofluoromethane	50.000	52.556	-5.1	97	0.00
36	T	1,1-Dichloropropene	50.000	48.350	3.3	89	0.00
37	T	Ethyl Acetate	50.000	47.379	5.2	85	0.00
38	T	Carbon Tetrachloride	50.000	49.661	0.7	90	0.00
39	T	Methylcyclohexane	50.000	50.367	-0.7	91	0.00
40	TM	Benzene	50.000	49.258	1.5	89	0.00
41	T	Methacrylonitrile	50.000	48.810	2.4	89	0.00
42	TM	1,2-Dichloroethane	50.000	49.717	0.6	93	0.00
43	T	Isopropyl Acetate	50.000	49.813	0.4	89	0.00
44	TM	Trichloroethene	50.000	47.918	4.2	91	0.00
45	C	1,2-Dichloropropane	50.000	49.806	0.4#	92	0.00
46	T	Dibromomethane	50.000	51.300	-2.6	92	0.00
47	T	Bromodichloromethane	50.000	51.569	-3.1	93	0.00
48	T	Methyl methacrylate	50.000	50.387	-0.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	986.961	1.3	89	0.00
50	S	Toluene-d8	50.000	51.847	-3.7	95	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.130	-2.1	89	0.00
52	CM	Toluene	50.000	51.412	-2.8#	92	0.00
53	T	t-1,3-Dichloropropene	50.000	52.667	-5.3	93	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.381	-4.8	90	0.00
55	T	1,1,2-Trichloroethane	50.000	50.558	-1.1	92	0.00
56	T	Ethyl methacrylate	50.000	51.637	-3.3	87	0.00
57	T	1,3-Dichloropropane	50.000	49.169	1.7	89	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	277.960	-11.2	95	0.00
59	T	2-Hexanone	250.000	255.394	-2.2	88	0.00
60	T	Dibromochloromethane	50.000	52.158	-4.3	91	0.00
61	T	1,2-Dibromoethane	50.000	50.236	-0.5	90	0.00
62	S	4-Bromofluorobenzene	50.000	54.065	-8.1	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64	T	Tetrachloroethene	50.000	50.564	-1.1	93	0.00
65	PM	Chlorobenzene	50.000	49.139	1.7	92	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.504	1.0	91	0.00
67	C	Ethyl Benzene	50.000	51.135	-2.3#	91	0.00
68	T	m/p-Xylenes	100.000	105.519	-5.5	92	0.00
69	T	o-Xylene	50.000	51.188	-2.4	92	0.00
70	T	Styrene	50.000	53.010	-6.0	92	0.00
71	P	Bromoform	50.000	50.372	-0.7	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	94	0.00
73	T	Isopropylbenzene	50.000	45.116	9.8	91	0.00
74	T	N-amyl acetate	50.000	42.924	14.2	85	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.277	1.4	88	0.00
76	T	1,2,3-Trichloropropane	50.000	43.524	13.0	88	0.00
77	T	Bromobenzene	50.000	49.930	0.1	92	0.00
78	T	n-propylbenzene	50.000	48.036	3.9	94	0.00
79	T	2-Chlorotoluene	50.000	45.156	9.7	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	46.638	6.7	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.109	11.8	88	0.00
82	T	4-Chlorotoluene	50.000	46.390	7.2	92	0.00
83	T	tert-Butylbenzene	50.000	45.626	8.7	92	0.00
84	T	1,2,4-Trimethylbenzene	50.000	47.477	5.0	93	0.00
85	T	sec-Butylbenzene	50.000	46.440	7.1	93	0.00
86	T	p-Isopropyltoluene	50.000	47.428	5.1	92	0.00
87	T	1,3-Dichlorobenzene	50.000	47.911	4.2	93	0.00
88	T	1,4-Dichlorobenzene	50.000	46.545	6.9	92	0.00
89	T	n-Butylbenzene	50.000	50.141	-0.3	93	0.00
90	T	Hexachloroethane	50.000	50.521	-1.0	96	0.00
91	T	1,2-Dichlorobenzene	50.000	46.869	6.3	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.767	8.5	85	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.620	8.8	80	0.00
94	T	Hexachlorobutadiene	50.000	48.178	3.6	83	0.00
95	T	Naphthalene	50.000	40.506	19.0	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078508.D
Acq On : 14 Jul 2023 09:12
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 15 03:55:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	43.368	13.3	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_Y Calibration Date/Time: 07/17/2023 11:00

Lab File ID: VY014663.D Init. Calib. Date(s): 07/13/2023 07/13/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:05 13:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.407	0.367		-9.83	20
Chloromethane	0.458	0.462	0.1	0.87	20
Vinyl Chloride	0.512	0.522		1.95	20
Bromomethane	0.338	0.368		8.88	20
Chloroethane	0.320	0.337		5.31	20
Trichlorofluoromethane	0.860	0.844		-1.86	20
1,1,2-Trichlorotrifluoroethane	0.527	0.517		-1.9	20
1,1-Dichloroethene	0.492	0.483		-1.83	20
Acetone	0.181	0.212		17.13	20
Carbon Disulfide	1.410	1.307		-7.3	20
Methyl tert-butyl Ether	1.599	1.746		9.19	20
Methyl Acetate	0.693	0.848		22.37	20
Methylene Chloride	0.656	0.618		-5.79	20
trans-1,2-Dichloroethene	0.559	0.552		-1.25	20
1,1-Dichloroethane	1.017	1.034	0.1	1.67	20
Cyclohexane	0.946	0.840		-11.2	20
2-Butanone	0.264	0.319		20.83	20
Carbon Tetrachloride	0.503	0.510		1.39	20
cis-1,2-Dichloroethene	0.650	0.674		3.69	20
Bromochloromethane	0.438	0.449		2.51	20
Chloroform	1.049	1.079		2.86	20
1,1,1-Trichloroethane	0.944	0.945		0.11	20
Methylcyclohexane	0.620	0.585		-5.64	20
Benzene	1.354	1.373		1.4	20
1,2-Dichloroethane	0.429	0.457		6.53	20
Trichloroethene	0.379	0.387		2.11	20
1,2-Dichloropropane	0.353	0.361		2.27	20
Bromodichloromethane	0.505	0.529		4.75	20
4-Methyl-2-Pentanone	0.328	0.392		19.51	20
Toluene	0.866	0.876		1.15	20
t-1,3-Dichloropropene	0.553	0.581		5.06	20
cis-1,3-Dichloropropene	0.601	0.624		3.83	20
1,1,2-Trichloroethane	0.299	0.326		9.03	20
2-Hexanone	0.239	0.288		20.5	20
Dibromochloromethane	0.366	0.399		9.02	20
1,2-Dibromoethane	0.298	0.326		9.4	20
Tetrachloroethene	0.402	0.412		2.49	20
Chlorobenzene	1.065	1.087	0.3	2.07	20
Ethyl Benzene	1.924	1.925		0.05	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3631 SAS No.: O3631 SDG No.: O3631

Instrument ID: MSVOA_Y Calibration Date/Time: 07/17/2023 11:00

Lab File ID: VY014663.D Init. Calib. Date(s): 07/13/2023 07/13/2023

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:05 13:31

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.734	0.736		0.27	20
o-Xylene	0.715	0.726		1.54	20
Styrene	1.206	1.241		2.9	20
Bromoform	0.272	0.313	0.1	15.07	20
Isopropylbenzene	3.915	3.814		-2.58	20
1,1,2,2-Tetrachloroethane	0.893	0.971	0.3	8.73	20
n-propylbenzene	4.718	4.579		-2.95	20
1,3,5-Trimethylbenzene	3.270	3.214		-1.71	20
tert-Butylbenzene	2.900	2.843		-1.97	20
1,2,4-Trimethylbenzene	3.209	3.205		-0.13	20
sec-Butylbenzene	4.255	4.180		-1.76	20
p-Isopropyltoluene	3.474	3.482		0.23	20
1,3-Dichlorobenzene	1.739	1.782		2.47	20
1,4-Dichlorobenzene	1.743	1.794		2.93	20
n-Butylbenzene	3.380	3.302		-2.31	20
1,2-Dichlorobenzene	1.594	1.648		3.39	20
1,2-Dibromo-3-Chloropropane	0.171	0.198		15.79	20
1,2,4-Trichlorobenzene	1.012	1.075		6.22	20
1,2,3-Trichlorobenzene	0.899	0.963		7.12	20
1,2-Dichloroethane-d4	0.570	0.569		-0.17	20
Dibromofluoromethane	0.318	0.318		0	20
Toluene-d8	1.173	1.123		-4.26	20
4-Bromofluorobenzene	0.450	0.434		-3.56	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.783	168	307698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	507929	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	451443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	223671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	175142	49.950	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.900%			
35) Dibromofluoromethane	7.710	113	161637	49.991	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.980%			
50) Toluene-d8	10.179	98	570379	47.848	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.700%			
62) 4-Bromofluorobenzene	12.477	95	220294	48.195	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	112940	45.052	ug/l	93
3) Chloromethane	2.107	50	142106	50.429	ug/l	99
4) Vinyl Chloride	2.247	62	160741	51.039	ug/l	97
5) Bromomethane	2.638	94	113229	54.404	ug/l	97
6) Chloroethane	2.784	64	103816	52.773	ug/l	97
7) Trichlorofluoromethane	3.113	101	259737	49.106	ug/l	97
8) Diethyl Ether	3.522	74	102987	52.331	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.887	101	159070	49.065	ug/l	95
10) Methyl Iodide	4.076	142	180924	52.518	ug/l	96
11) Tert butyl alcohol	4.942	59	206224	290.485	ug/l #	85
12) 1,1-Dichloroethene	3.863	96	148560	49.029	ug/l	95
13) Acrolein	3.723	56	82642	225.501	ug/l	98
14) Allyl chloride	4.466	41	264667	49.195	ug/l	95
15) Acrylonitrile	5.149	53	326653	300.999	ug/l	97
16) Acetone	3.942	43	325646	293.080	ug/l	91
17) Carbon Disulfide	4.186	76	402266	46.371	ug/l	98
18) Methyl Acetate	4.466	43	260867	61.180	ug/l	93
19) Methyl tert-butyl Ether	5.210	73	537134	54.572	ug/l	99
20) Methylene Chloride	4.704	84	190171	52.933	ug/l	88
21) trans-1,2-Dichloroethene	5.210	96	169721	49.357	ug/l	98
22) Diisopropyl ether	6.113	45	560807	51.271	ug/l	92
23) Vinyl Acetate	6.052	43	1768210	270.135	ug/l	96
24) 1,1-Dichloroethane	6.009	63	318064	50.820	ug/l	97
25) 2-Butanone	6.978	43	491382	302.286	ug/l	97
26) 2,2-Dichloropropane	6.972	77	295779	49.588	ug/l	99
27) cis-1,2-Dichloroethene	6.978	96	207286	51.789	ug/l	97
28) Bromochloromethane	7.326	49	138233	51.284	ug/l	94
29) Tetrahydrofuran	7.338	42	304133	303.847	ug/l	93
30) Chloroform	7.496	83	331918	51.429	ug/l	98
31) Cyclohexane	7.777	56	258426	44.399	ug/l	93
32) 1,1,1-Trichloroethane	7.698	97	290926	50.085	ug/l	99
36) 1,1-Dichloropropene	7.911	75	238015	49.224	ug/l	99
37) Ethyl Acetate	7.064	43	195643	58.767	ug/l #	95
38) Carbon Tetrachloride	7.893	117	259136	50.698	ug/l	99
39) Methylcyclohexane	9.179	83	297310	47.195	ug/l	96
40) Benzene	8.155	78	697370	50.710	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.301	41	103306m	60.329 ug/l		
42) 1,2-Dichloroethane	8.234	62	232102	53.297 ug/l		94
43) Isopropyl Acetate	8.265	43	359272	56.652 ug/l		97
44) Trichloroethene	8.935	130	196338	51.027 ug/l		100
45) 1,2-Dichloropropane	9.210	63	183254	51.032 ug/l		97
46) Dibromomethane	9.301	93	116390	53.427 ug/l		97
47) Bromodichloromethane	9.490	83	268710	52.335 ug/l		97
48) Methyl methacrylate	9.289	41	162506	56.948 ug/l		93
49) 1,4-Dioxane	9.289	88	44190	1244.023 ug/l	#	46
51) 4-Methyl-2-Pentanone	10.069	43	996079	299.151 ug/l		94
52) Toluene	10.240	92	444829	50.549 ug/l		94
53) t-1,3-Dichloropropene	10.459	75	295020	52.530 ug/l		99
54) cis-1,3-Dichloropropene	9.923	75	316801	51.871 ug/l		96
55) 1,1,2-Trichloroethane	10.642	97	165594	54.570 ug/l		97
56) Ethyl methacrylate	10.508	69	259186	55.941 ug/l		91
57) 1,3-Dichloropropane	10.789	76	281348	53.754 ug/l		98
58) 2-Chloroethyl Vinyl ether	9.777	63	595315	275.760 ug/l		94
59) 2-Hexanone	10.825	43	732563	301.691 ug/l		92
60) Dibromochloromethane	10.984	129	202454	54.415 ug/l		99
61) 1,2-Dibromoethane	11.087	107	165552	54.687 ug/l		100
64) Tetrachloroethene	10.715	164	185947	51.214 ug/l		97
65) Chlorobenzene	11.514	112	490728	51.011 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.587	131	192050	52.947 ug/l		98
67) Ethyl Benzene	11.593	91	868945	50.028 ug/l		97
68) m/p-Xylenes	11.703	106	664736	100.258 ug/l		96
69) o-Xylene	12.026	106	327754	50.752 ug/l		99
70) Styrene	12.044	104	560076	51.457 ug/l		98
71) Bromoform	12.203	173	141145	57.408 ug/l		98
73) Isopropylbenzene	12.325	105	853183	48.716 ug/l		99
74) N-amyl acetate	12.142	43	316452	53.950 ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.581	83	217228	54.391 ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	158403m	56.074 ug/l		
77) Bromobenzene	12.605	156	208827	52.236 ug/l		95
78) n-propylbenzene	12.666	91	1024228	48.532 ug/l		99
79) 2-Chlorotoluene	12.752	91	596795	49.097 ug/l		99
80) 1,3,5-Trimethylbenzene	12.813	105	718924	49.153 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.374	75	81229	55.674 ug/l		93
82) 4-Chlorotoluene	12.855	91	619517	49.486 ug/l		100
83) tert-Butylbenzene	13.075	119	635956	49.016 ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	716760	49.934 ug/l		100
85) sec-Butylbenzene	13.252	105	934892	49.120 ug/l		100
86) p-Isopropyltoluene	13.367	119	778729	50.112 ug/l		99
87) 1,3-Dichlorobenzene	13.367	146	398475	51.214 ug/l		99
88) 1,4-Dichlorobenzene	13.447	146	401170	51.453 ug/l		99
89) n-Butylbenzene	13.697	91	738527	48.849 ug/l		95
90) Hexachloroethane	13.959	117	159966	50.117 ug/l		90
91) 1,2-Dichlorobenzene	13.739	146	368576	51.704 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	44250	57.935 ug/l		92
93) 1,2,4-Trichlorobenzene	15.007	180	240423	53.130 ug/l		99
94) Hexachlorobutadiene	15.111	225	127791	51.389 ug/l		98
95) Naphthalene	15.233	128	599054	56.822 ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	215488	53.581 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

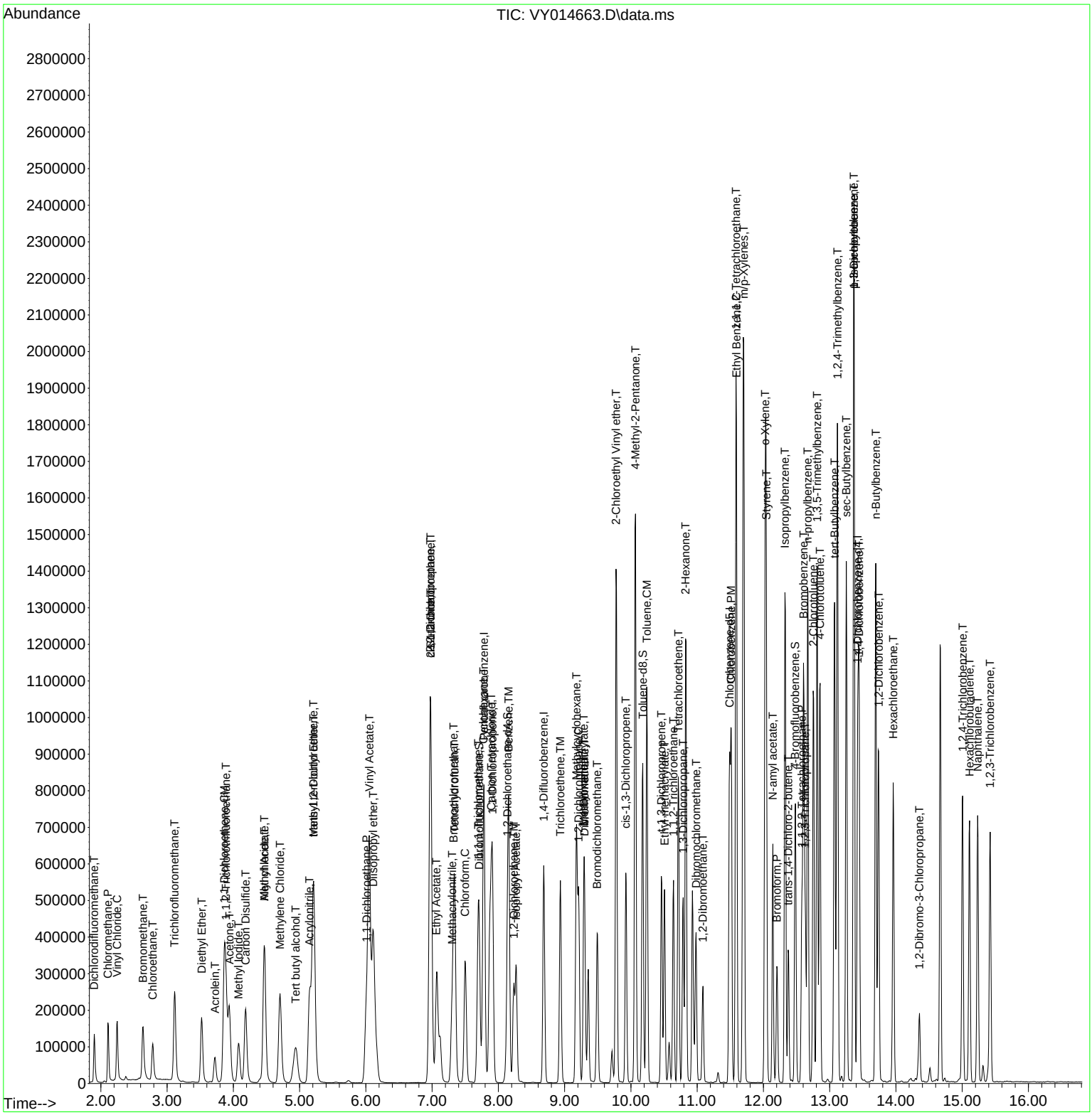
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Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

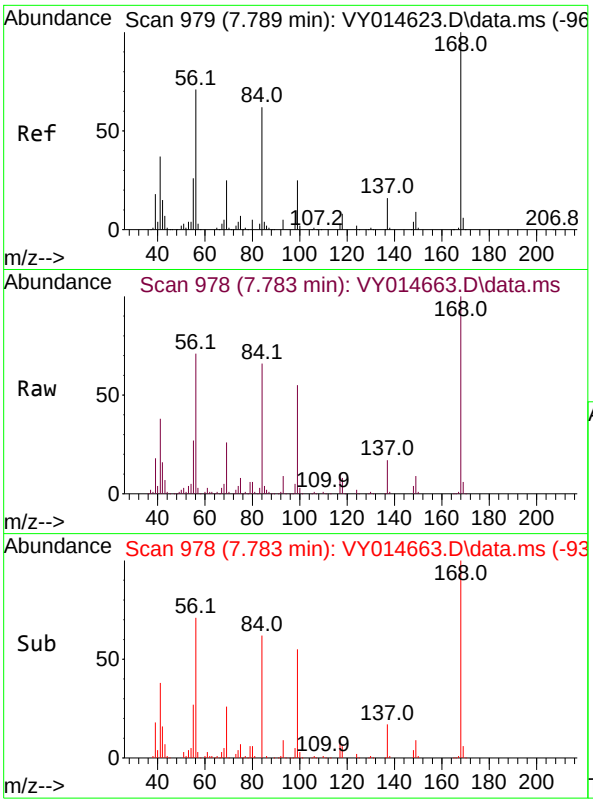
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Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
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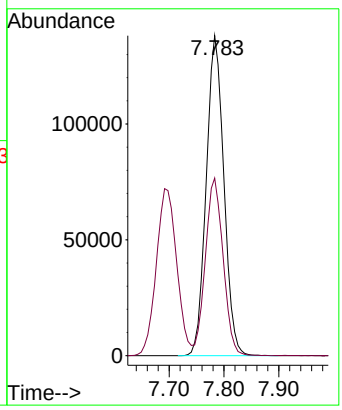




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:168 Resp: 30769

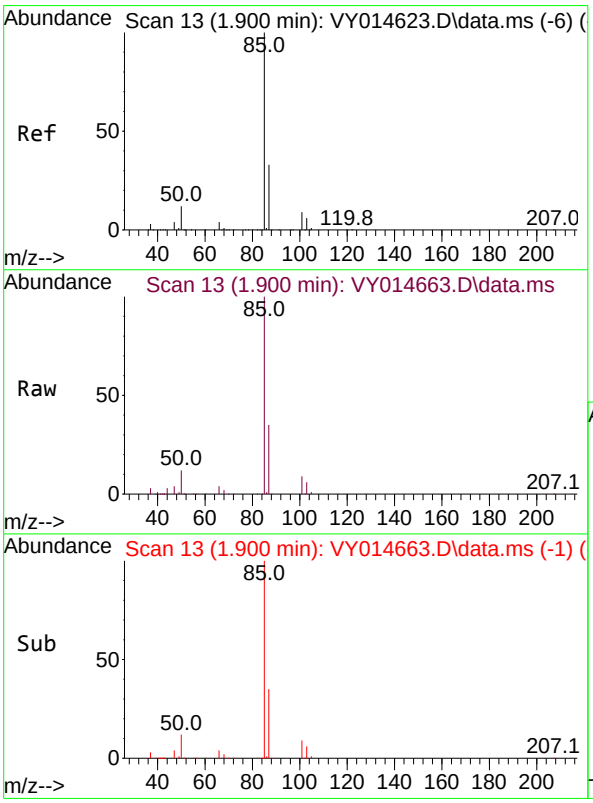
Ion	Ratio	Lower	Upper
168	100		
99	55.4	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

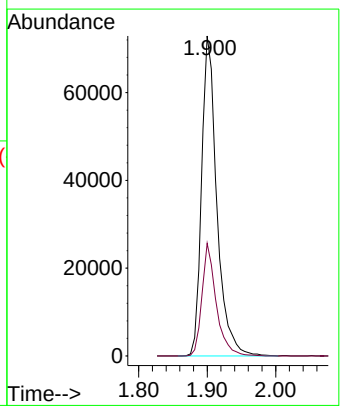
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

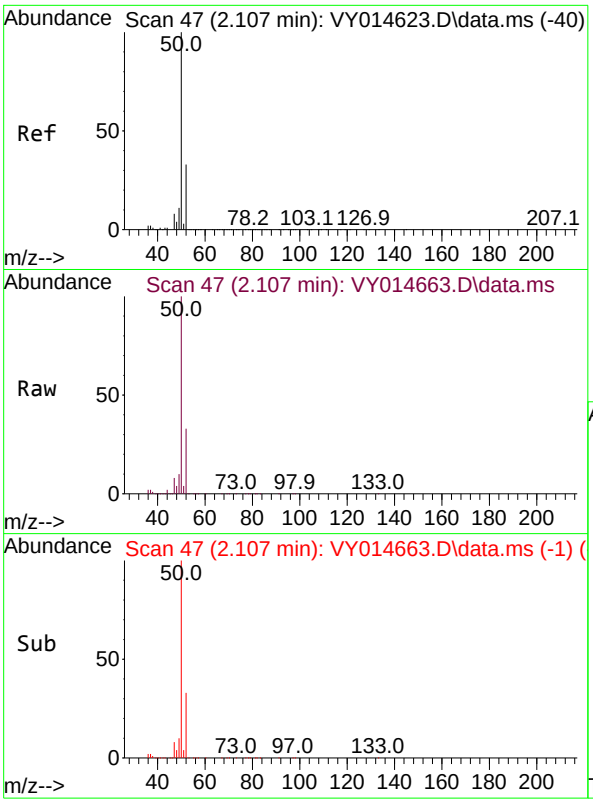


#2
Dichlorodifluoromethane
Concen: 45.052 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 85 Resp: 112940

Ion	Ratio	Lower	Upper
85	100		
87	35.2	15.6	46.8

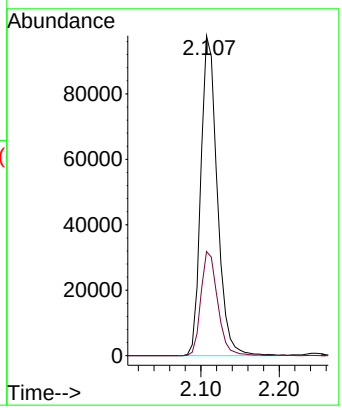




#3
Chloromethane
Concen: 50.429 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 50 Resp: 14210

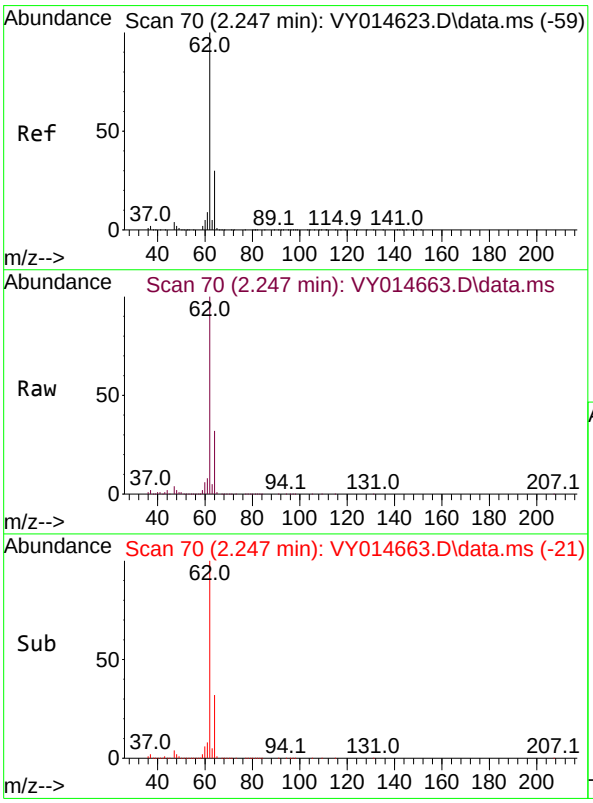
Ion	Ratio	Lower	Upper
50	100		
52	32.6	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

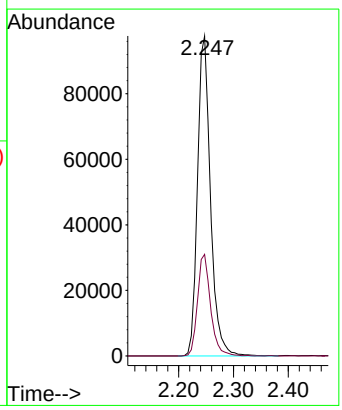
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

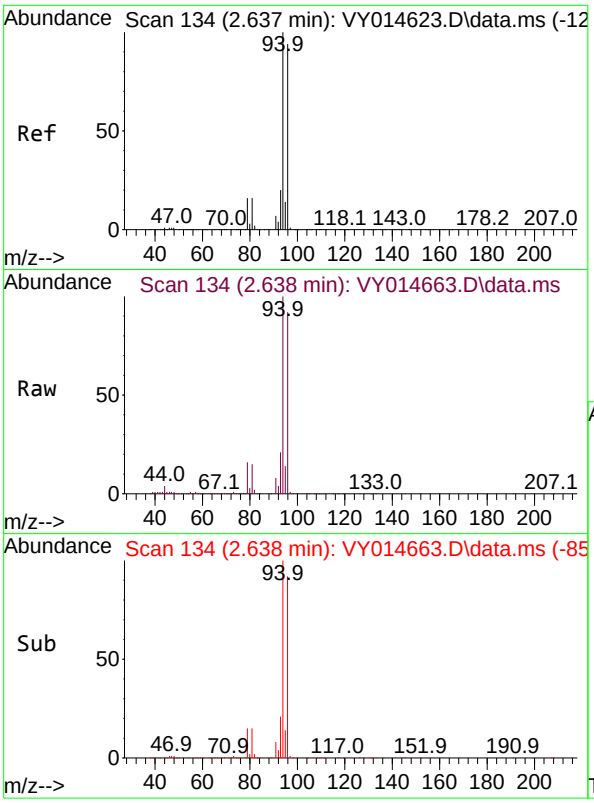


#4
Vinyl Chloride
Concen: 51.039 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 62 Resp: 160741

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5

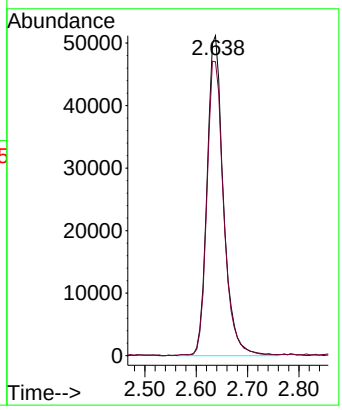




#5
Bromomethane
Concen: 54.404 ug/l
RT: 2.638 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 94 Resp: 11322

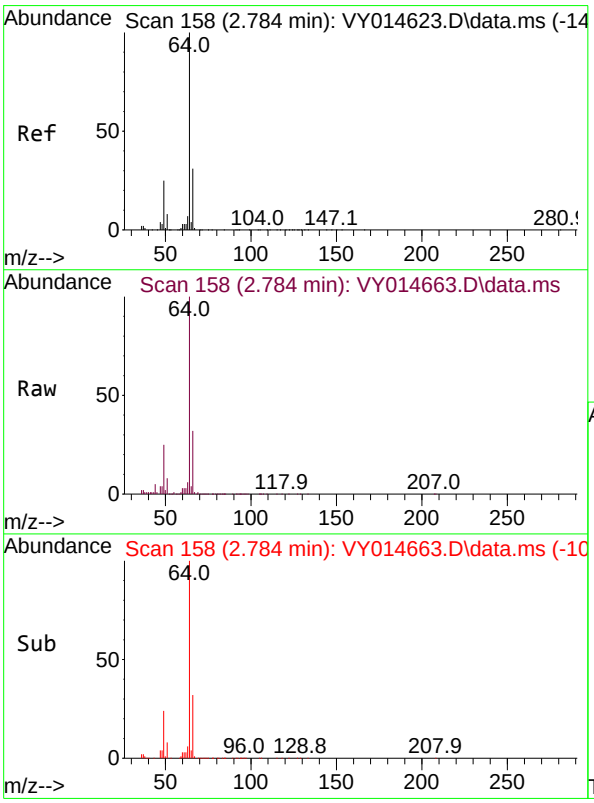
Ion	Ratio	Lower	Upper
94	100		
96	91.7	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

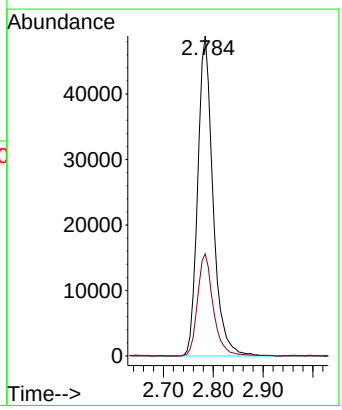
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

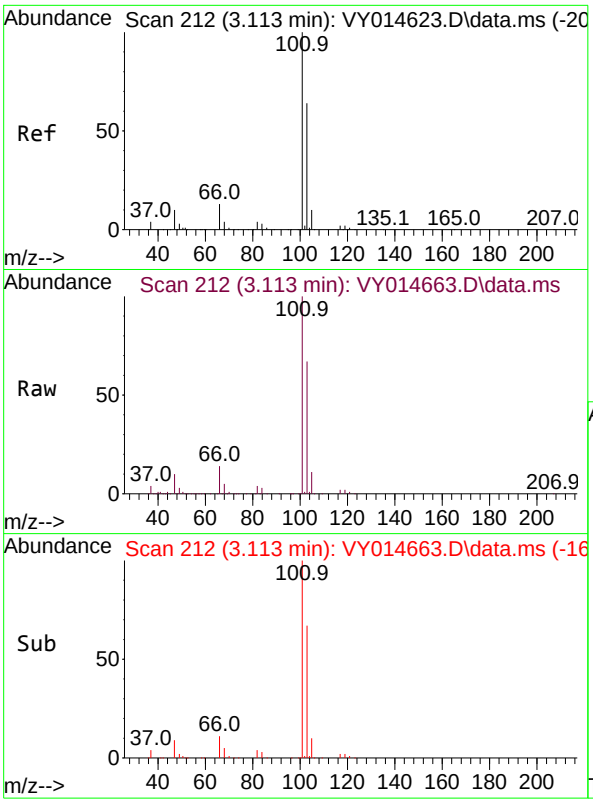


#6
Chloroethane
Concen: 52.773 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 64 Resp: 103816

Ion	Ratio	Lower	Upper
64	100		
66	31.9	24.4	36.6

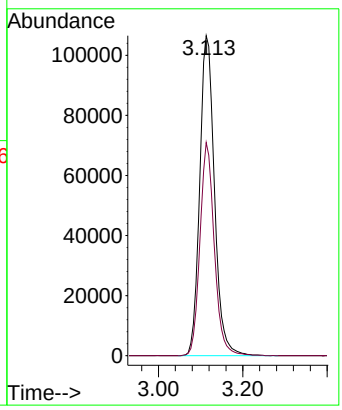




#7
Trichlorofluoromethane
Concen: 49.106 ug/l
RT: 3.113 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:101 Resp: 25973

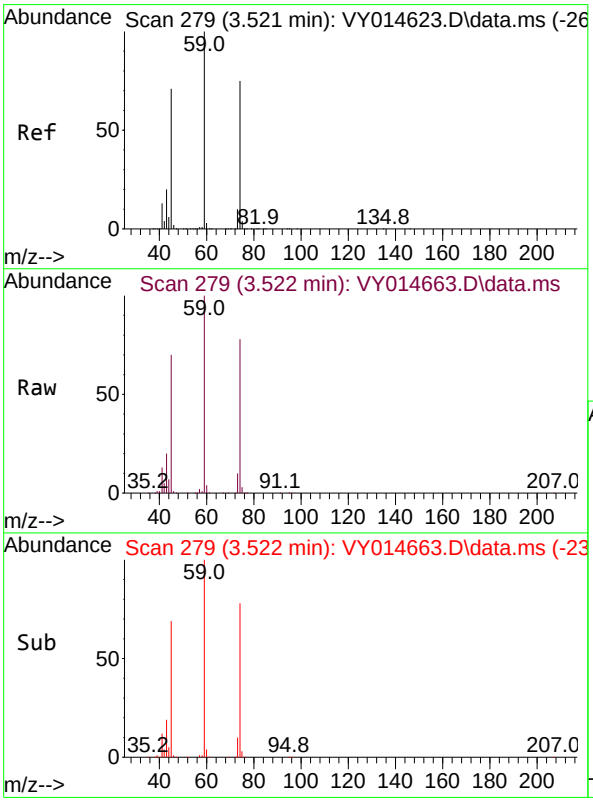
Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

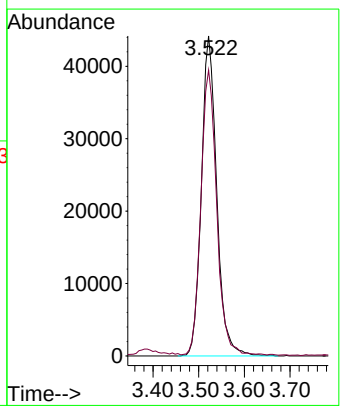
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

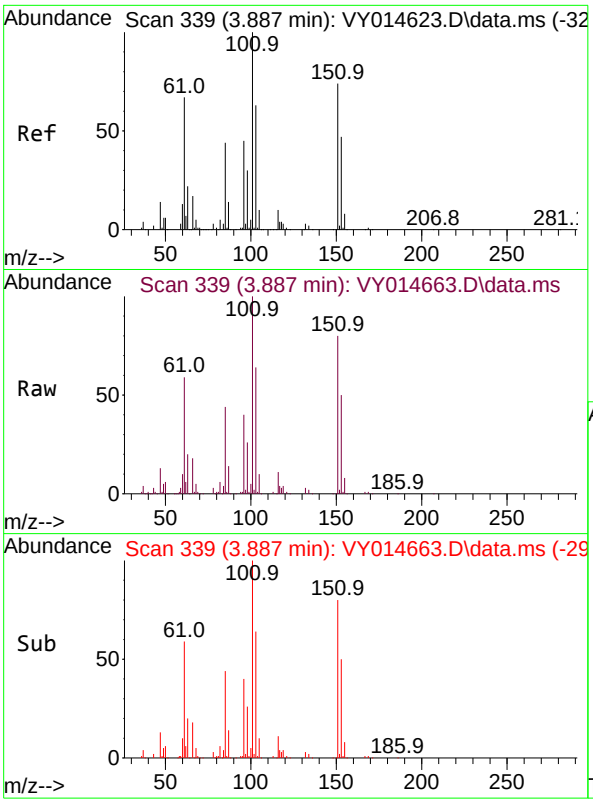


#8
Diethyl Ether
Concen: 52.331 ug/l
RT: 3.522 min Scan# 279
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 74 Resp: 102987

Ion	Ratio	Lower	Upper
74	100		
45	91.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.065 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

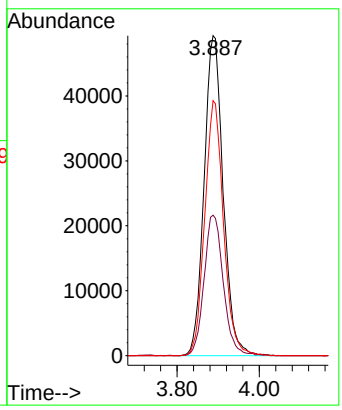
Tgt Ion:101 Resp: 15907

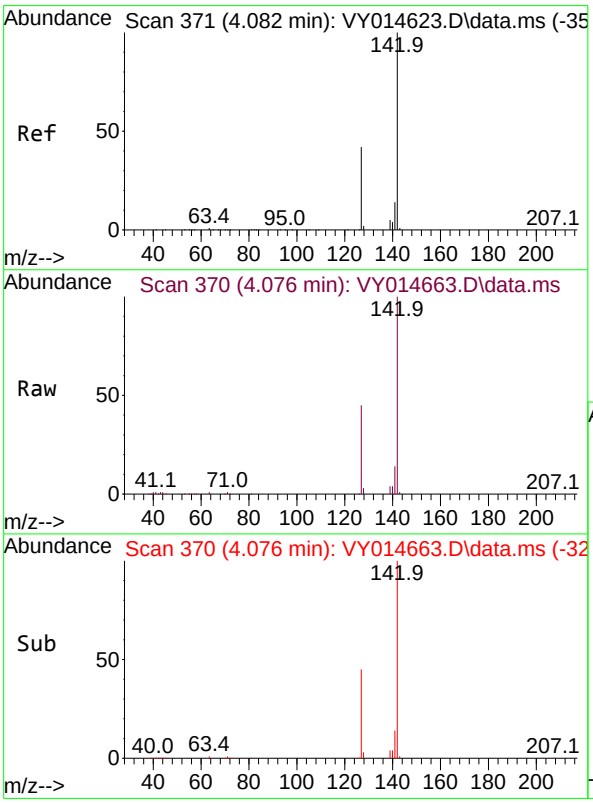
Ion	Ratio	Lower	Upper
101	100		
85	44.3	36.6	55.0
151	78.3	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

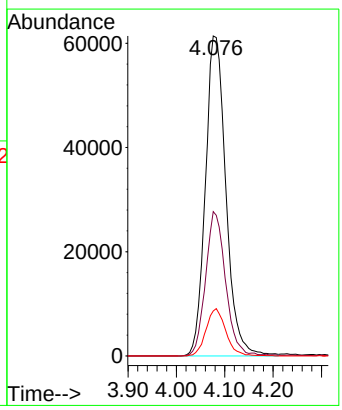


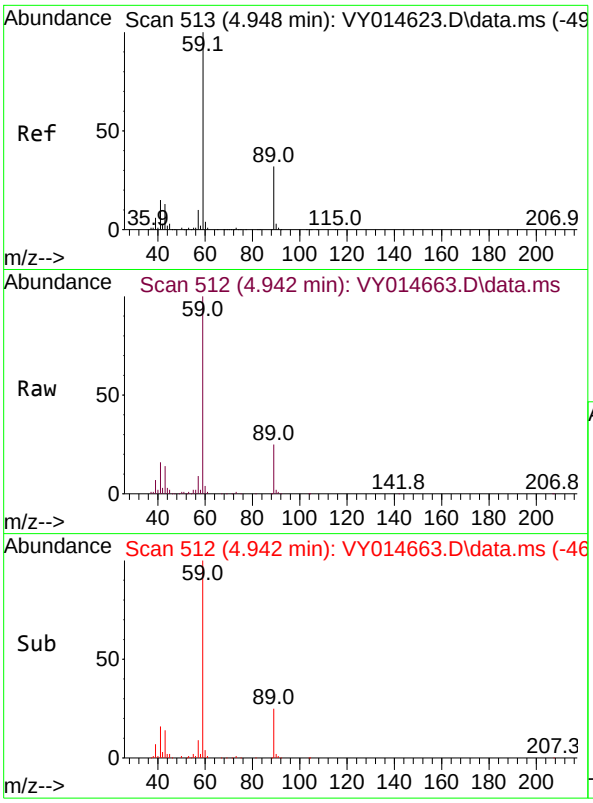


#10
Methyl Iodide
Concen: 52.518 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:142 Resp: 180924

Ion	Ratio	Lower	Upper
142	100		
127	43.9	37.6	56.4
141	14.3	11.8	17.8





#11
Tert butyl alcohol
Concen: 290.485 ug/l
RT: 4.942 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

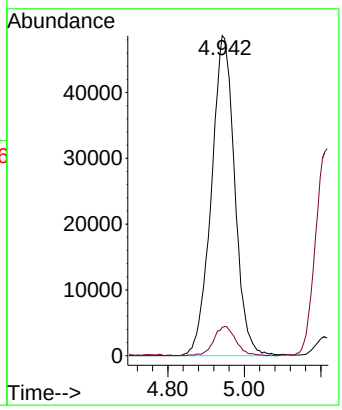
Tgt Ion: 59 Resp: 20622

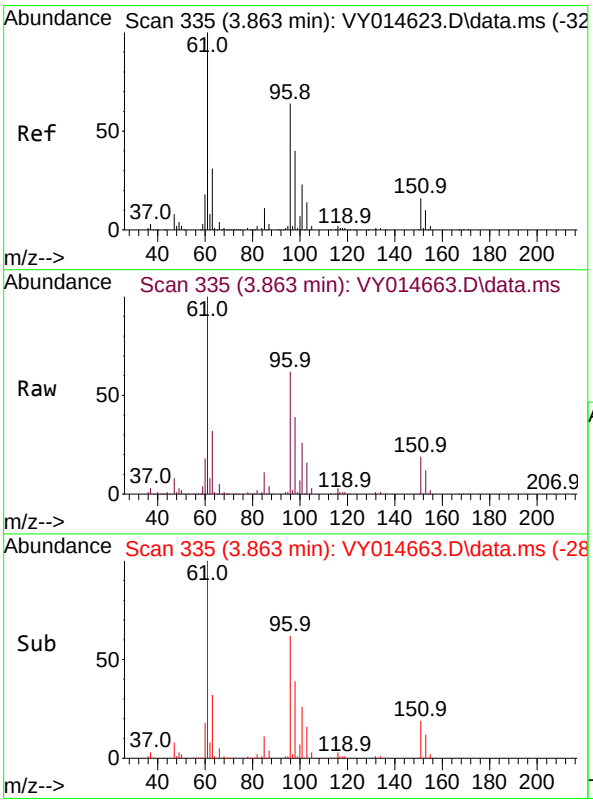
Ion	Ratio	Lower	Upper
59	100		
57	8.7	3.0	4.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

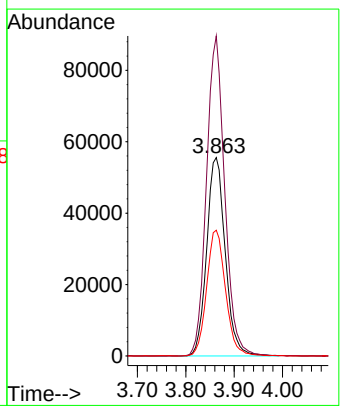


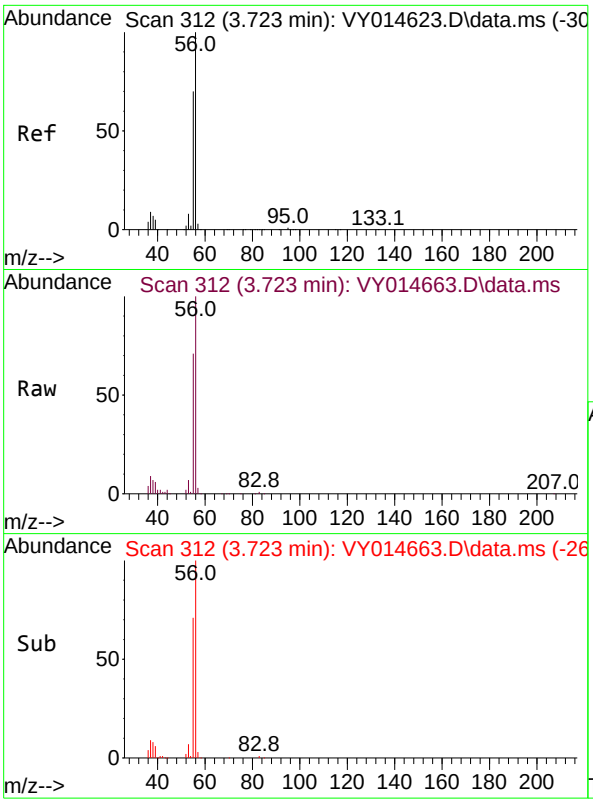


#12
1,1-Dichloroethene
Concen: 49.029 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 96 Resp: 148560

Ion	Ratio	Lower	Upper
96	100		
61	161.3	136.4	204.6
98	63.4	49.4	74.2





#13
Acrolein
Concen: 225.501 ug/l
RT: 3.723 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

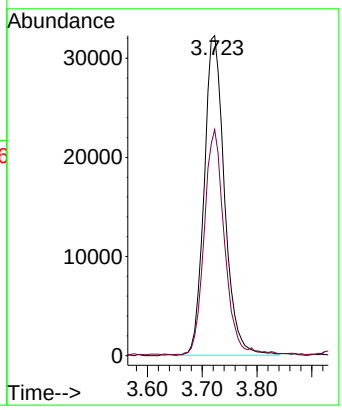
Tgt Ion: 56 Resp: 8264

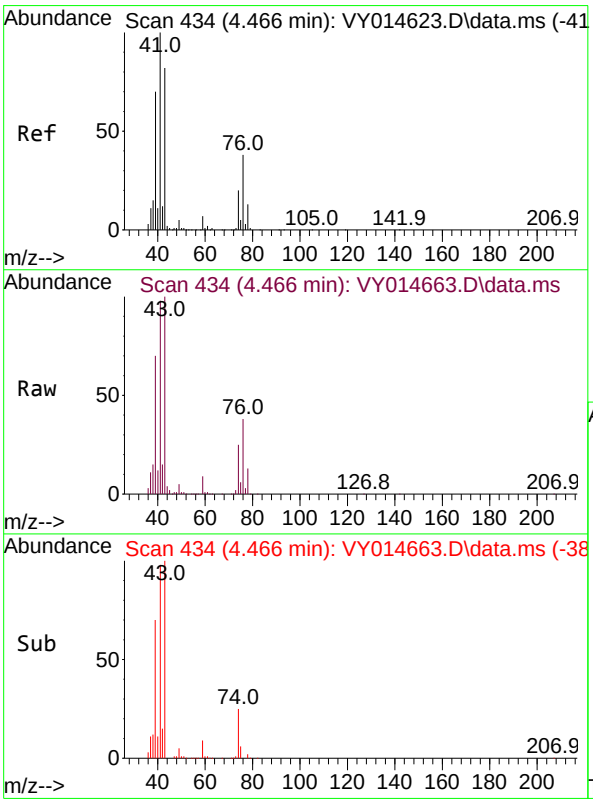
Ion	Ratio	Lower	Upper
56	100		
55	69.7	57.0	85.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

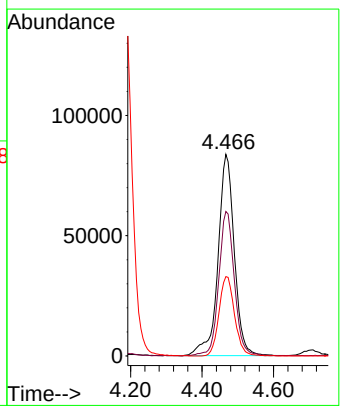


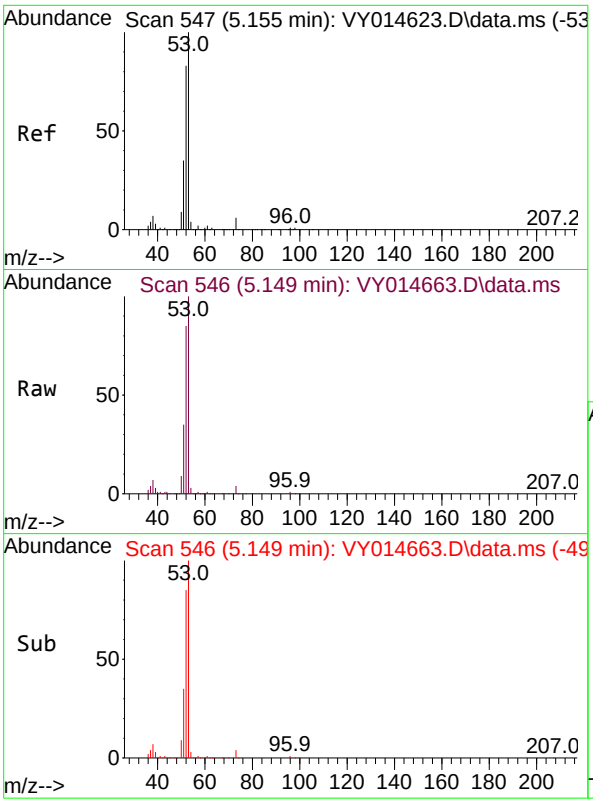


#14
Allyl chloride
Concen: 49.195 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 41 Resp: 264667

Ion	Ratio	Lower	Upper
41	100		
39	68.8	58.0	87.0
76	37.6	27.4	41.2





#15
Acrylonitrile
Concen: 300.999 ug/l
RT: 5.149 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

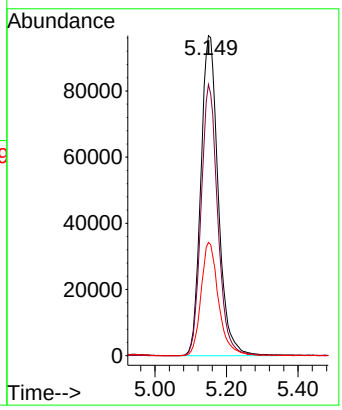
Tgt Ion: 53 Resp: 32665

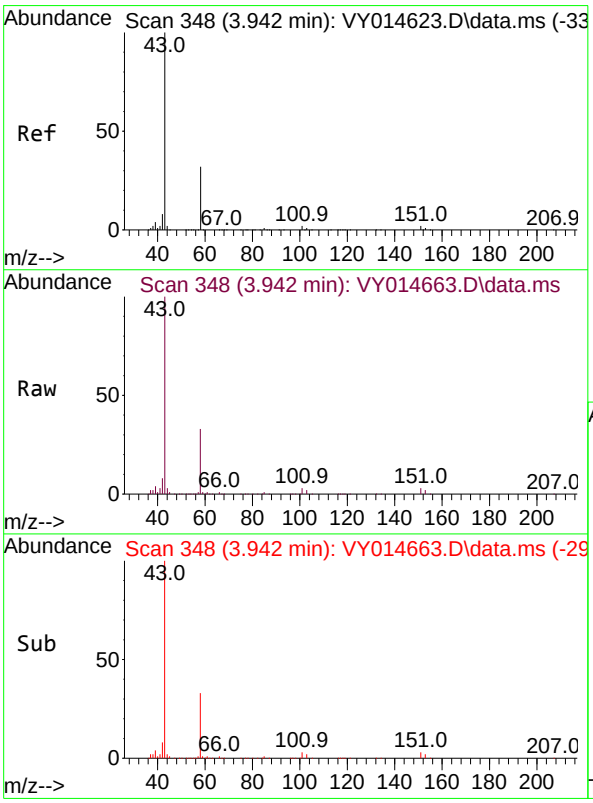
Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.9	100.3
51	35.6	29.8	44.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

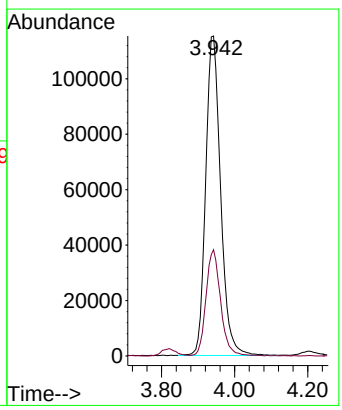


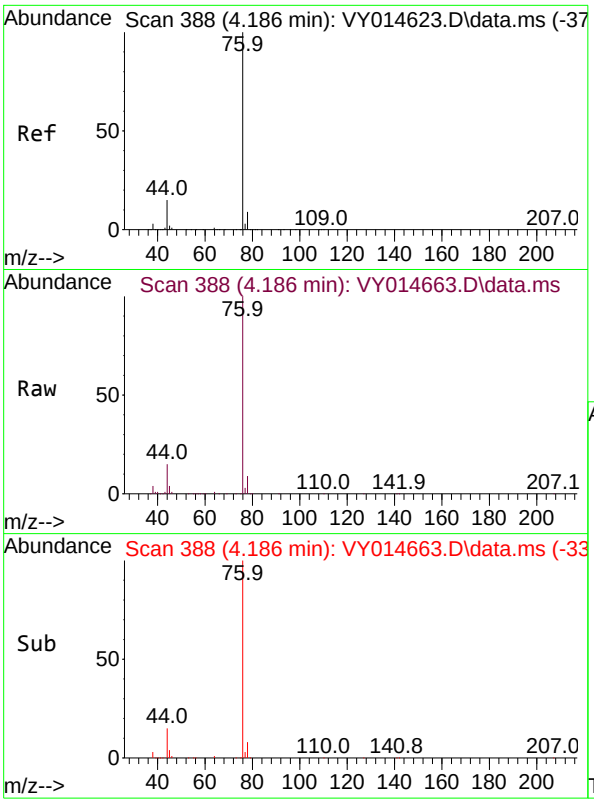


#16
Acetone
Concen: 293.080 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 43 Resp: 325646

Ion	Ratio	Lower	Upper
43	100		
58	33.2	22.7	34.1





#17
Carbon Disulfide
Concen: 46.371 ug/l
RT: 4.186 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

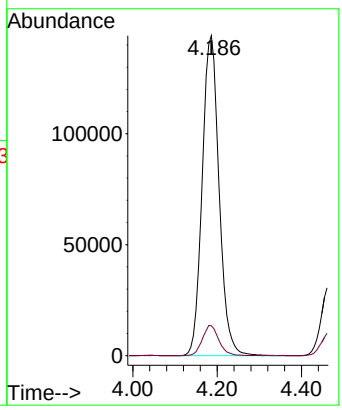
Tgt Ion: 76 Resp: 40226

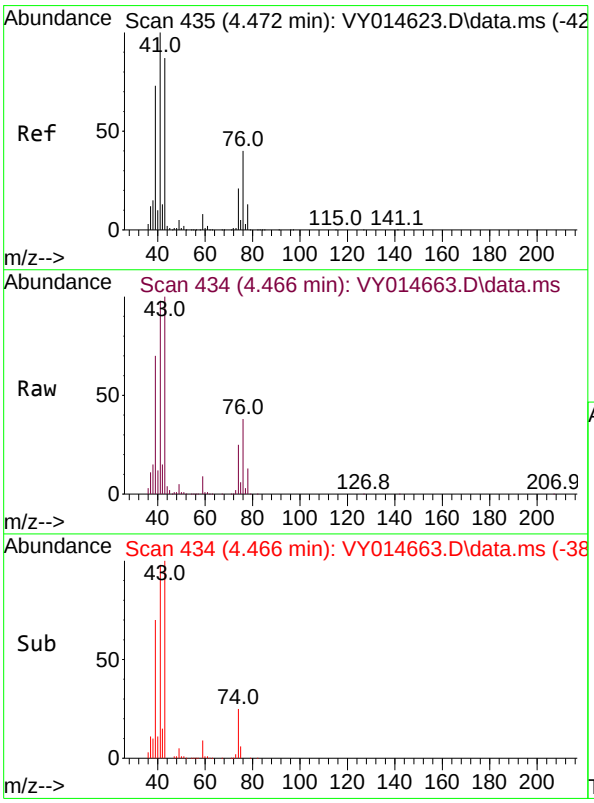
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

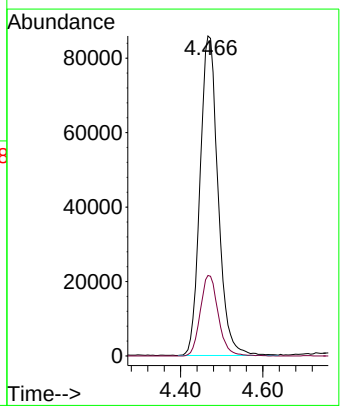


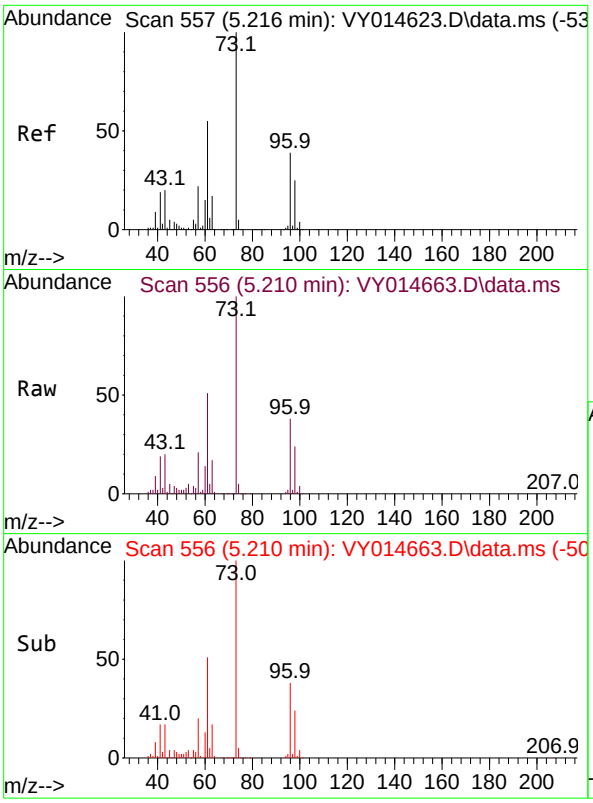


#18
Methyl Acetate
Concen: 61.180 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 43 Resp: 260867

Ion	Ratio	Lower	Upper
43	100		
74	25.1	17.4	26.0

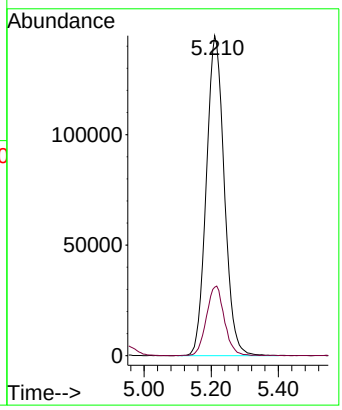




#19
Methyl tert-butyl Ether
Concen: 54.572 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 73 Resp: 53713

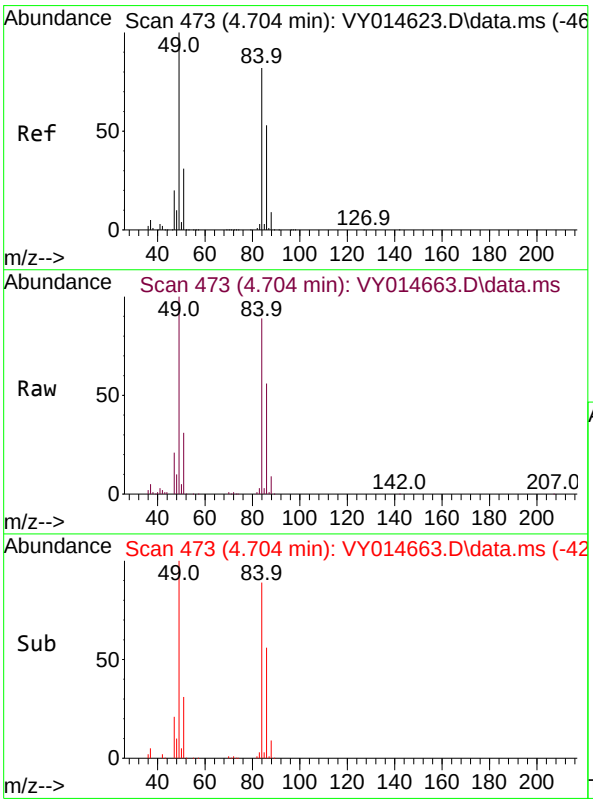
Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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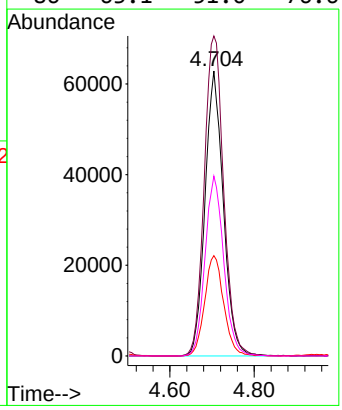
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

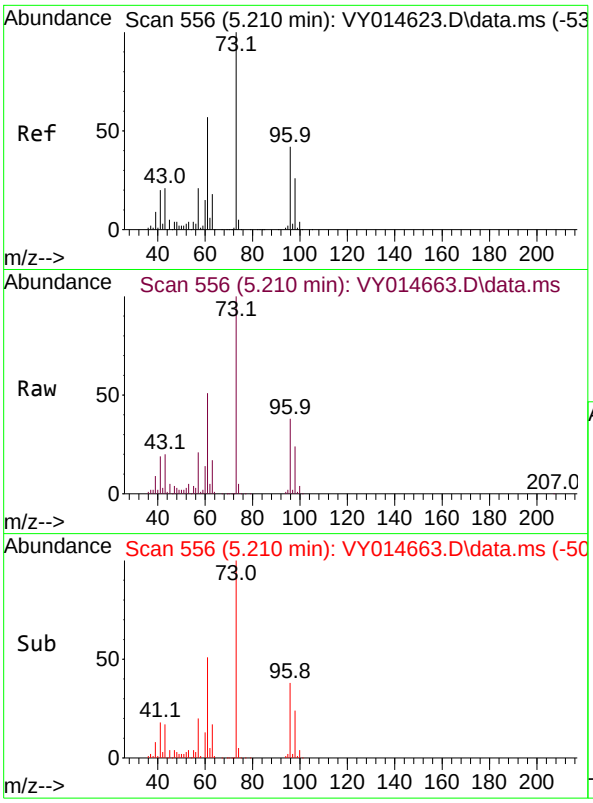


#20
Methylene Chloride
Concen: 52.933 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 84 Resp: 190171

Ion	Ratio	Lower	Upper
84	100		
49	112.3	106.9	160.3
51	35.2	33.2	49.8
86	63.1	51.0	76.6





#21
trans-1,2-Dichloroethene
Concen: 49.357 ug/l
RT: 5.210 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

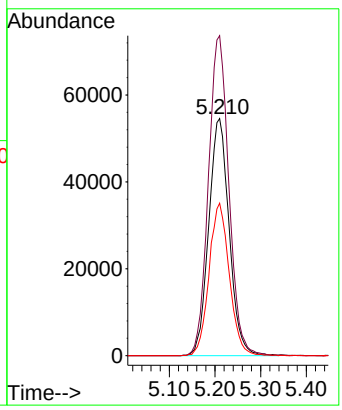
Tgt Ion: 96 Resp: 16972

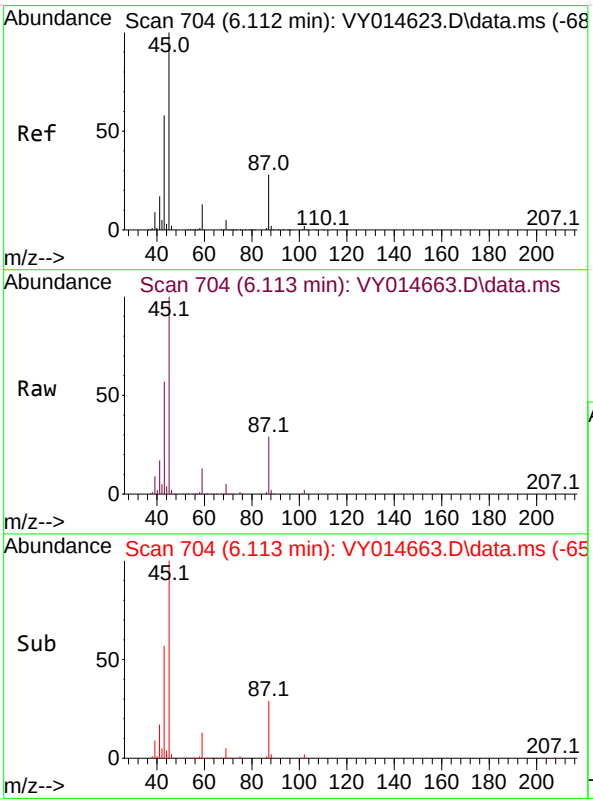
Ion	Ratio	Lower	Upper
96	100		
61	134.9	110.2	165.4
98	64.3	51.8	77.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

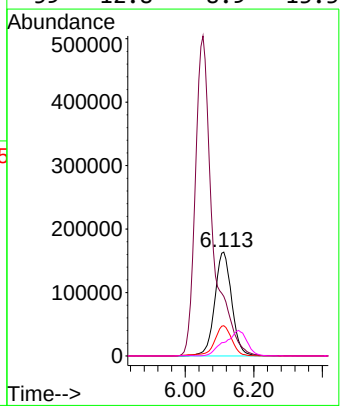


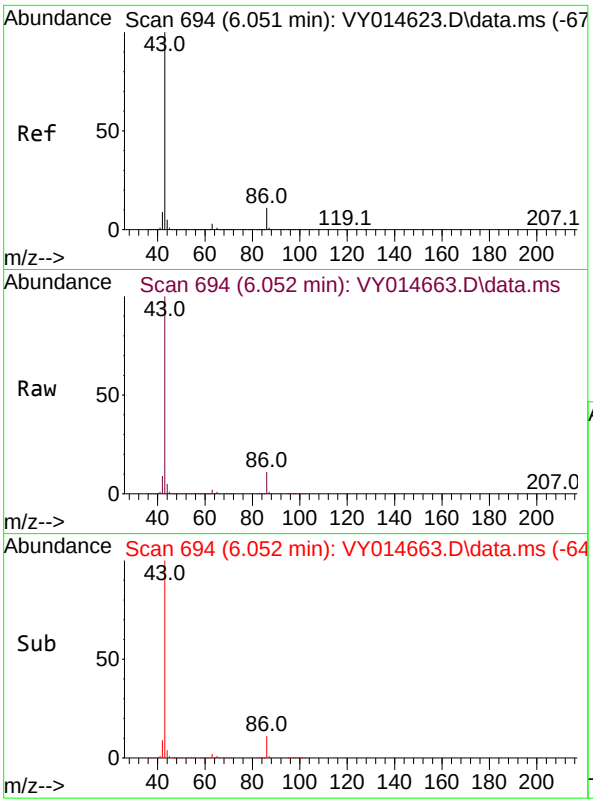


#22
Diisopropyl ether
Concen: 51.271 ug/l
RT: 6.113 min Scan# 704
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 45 Resp: 560807

Ion	Ratio	Lower	Upper
45	100		
43	57.3	52.2	78.4
87	29.1	21.0	31.6
59	12.8	8.9	13.3





#23
Vinyl Acetate
Concen: 270.135 ug/l
RT: 6.052 min Scan# 6
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

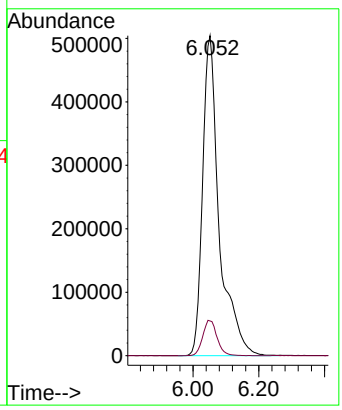
Tgt Ion: 43 Resp: 176821

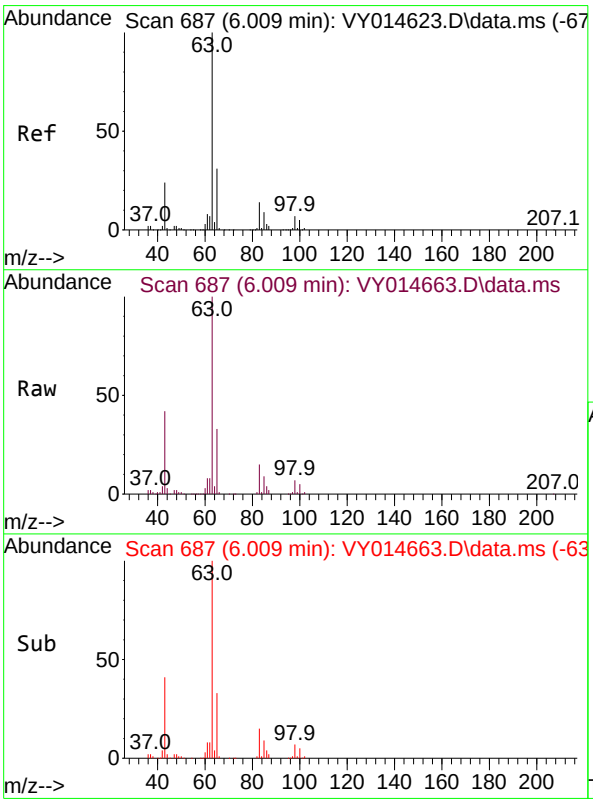
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.5	11.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

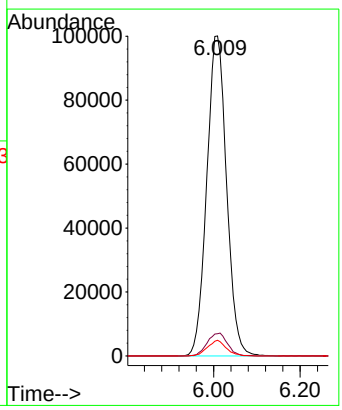


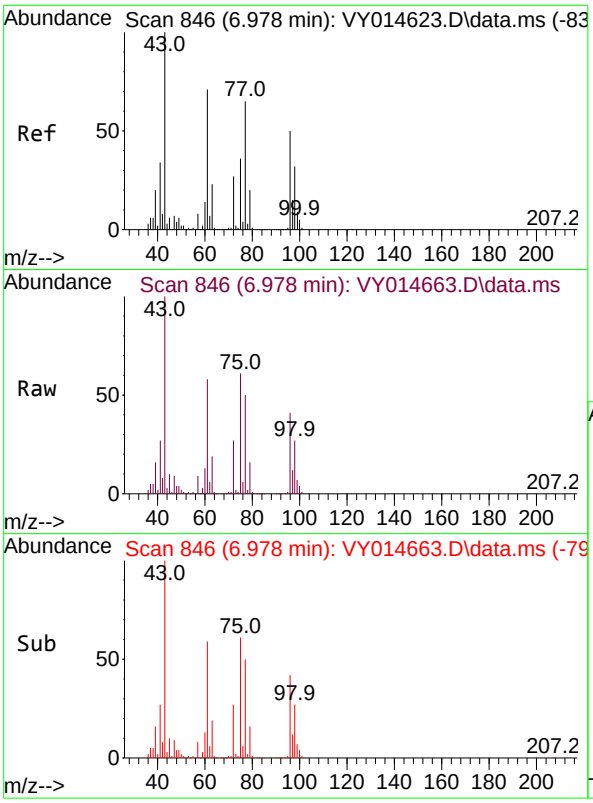


#24
1,1-Dichloroethane
Concen: 50.820 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 63 Resp: 318064

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.1	9.4
100	4.9	1.8	5.5





#25
2-Butanone
Concen: 302.286 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

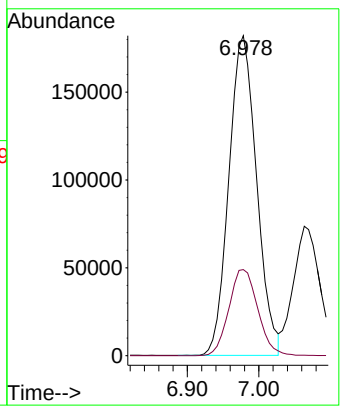
Tgt Ion: 43 Resp: 49138

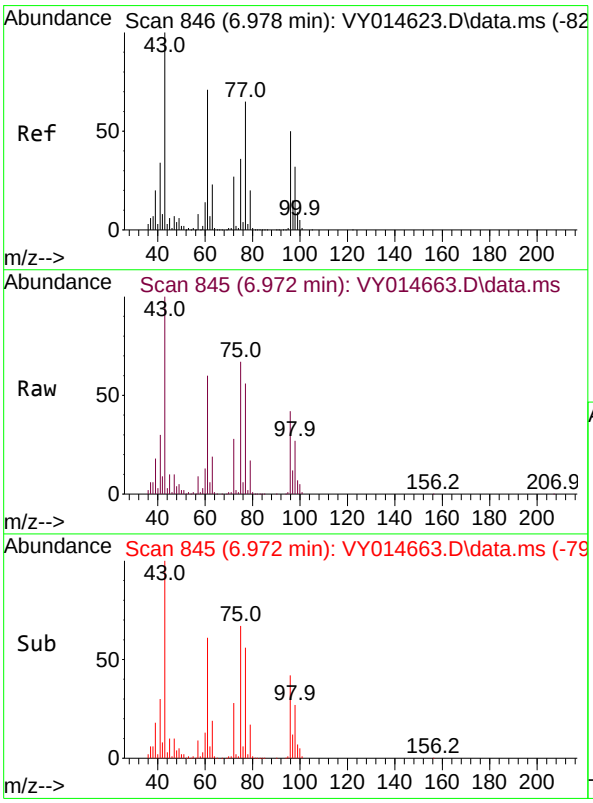
Ion	Ratio	Lower	Upper
43	100		
72	26.9	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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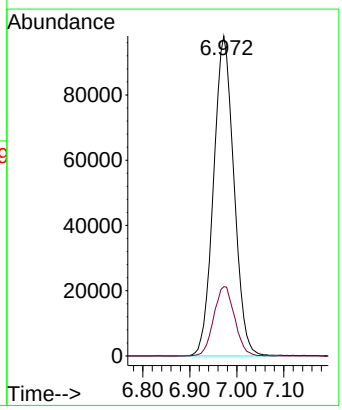


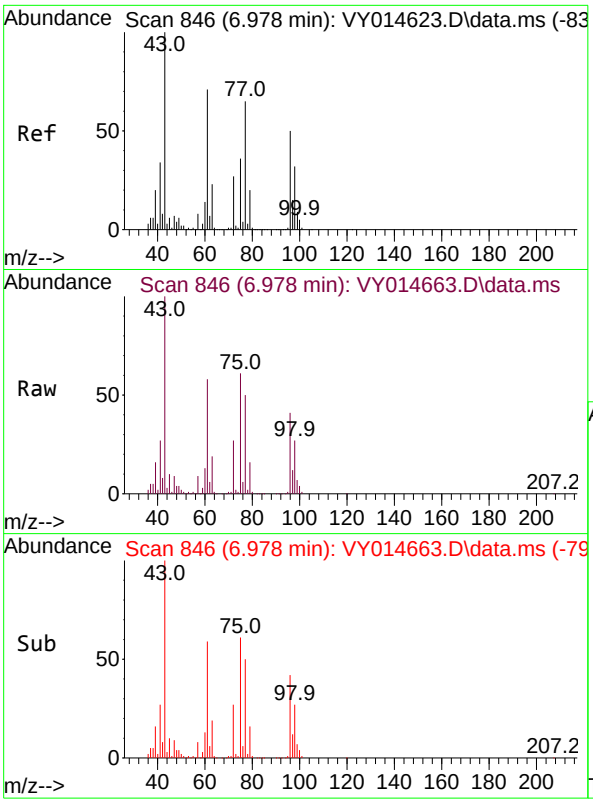


#26
2,2-Dichloropropane
Concen: 49.588 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 77 Resp: 295779

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 51.789 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

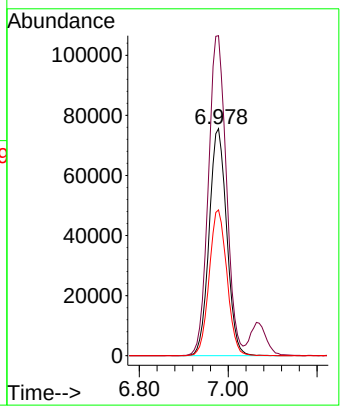
Tgt Ion: 96 Resp: 20728

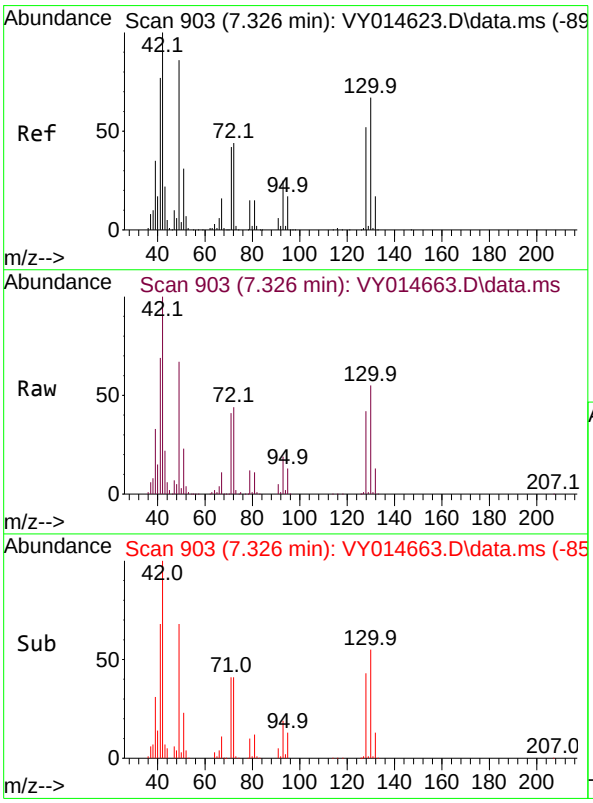
Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	301.4
98	64.9	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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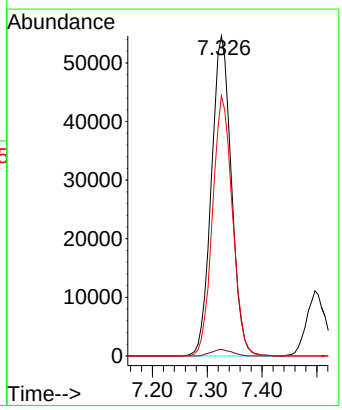


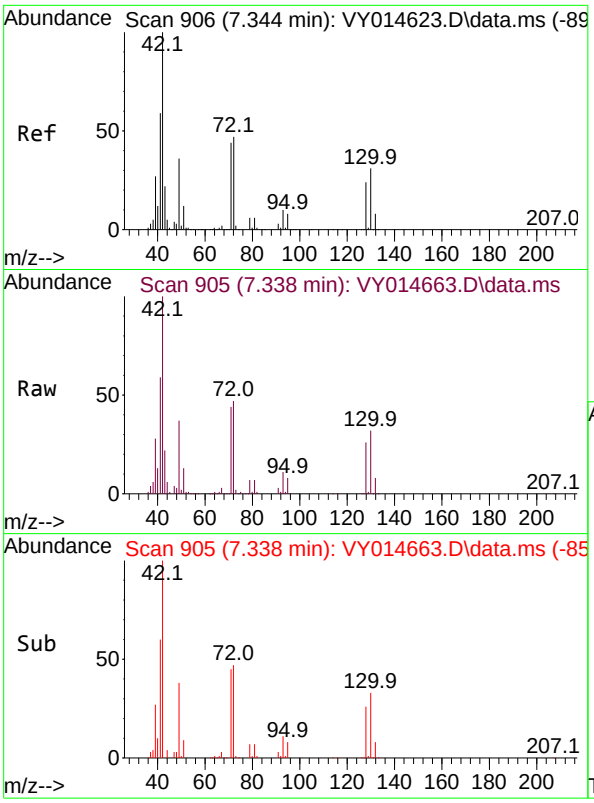


#28
Bromochloromethane
Concen: 51.284 ug/l
RT: 7.326 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 49 Resp: 138233

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	80.9	60.7	91.1





#29
Tetrahydrofuran
Concen: 303.847 ug/l
RT: 7.338 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

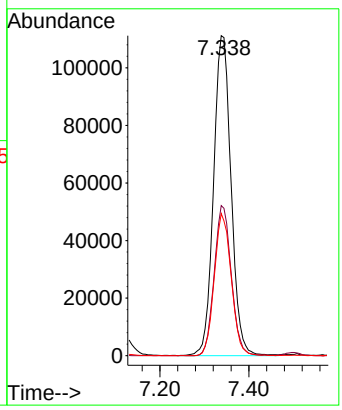
Tgt Ion: 42 Resp: 30413

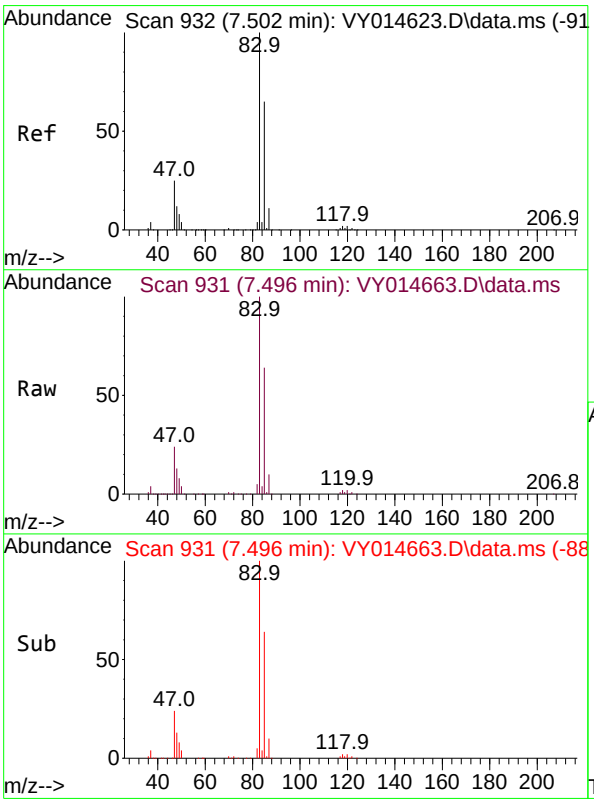
Ion	Ratio	Lower	Upper
42	100		
72	45.7	32.8	49.2
71	42.9	31.0	46.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

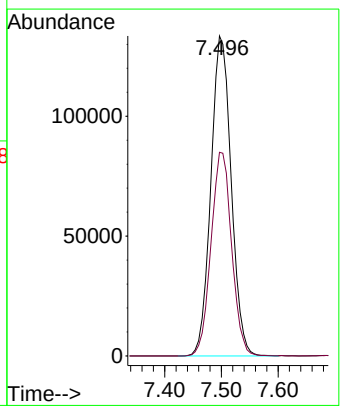


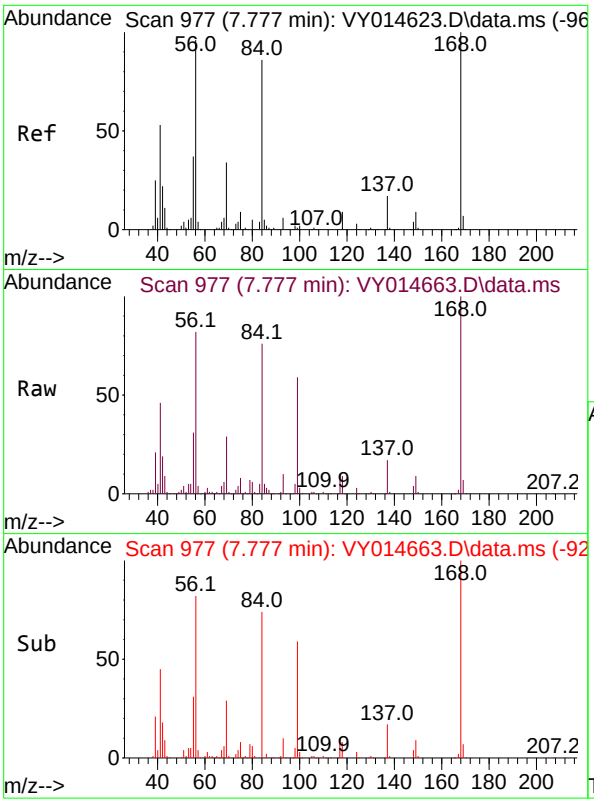


#30
Chloroform
Concen: 51.429 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 83 Resp: 331918

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.7	74.5





#31
Cyclohexane
Concen: 44.399 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

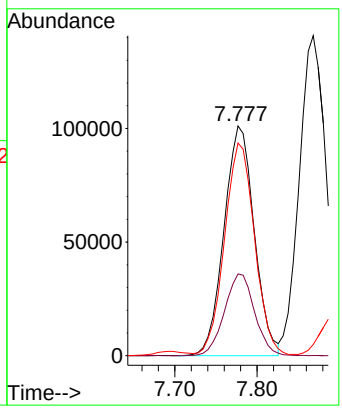
Tgt Ion: 56 Resp: 25842

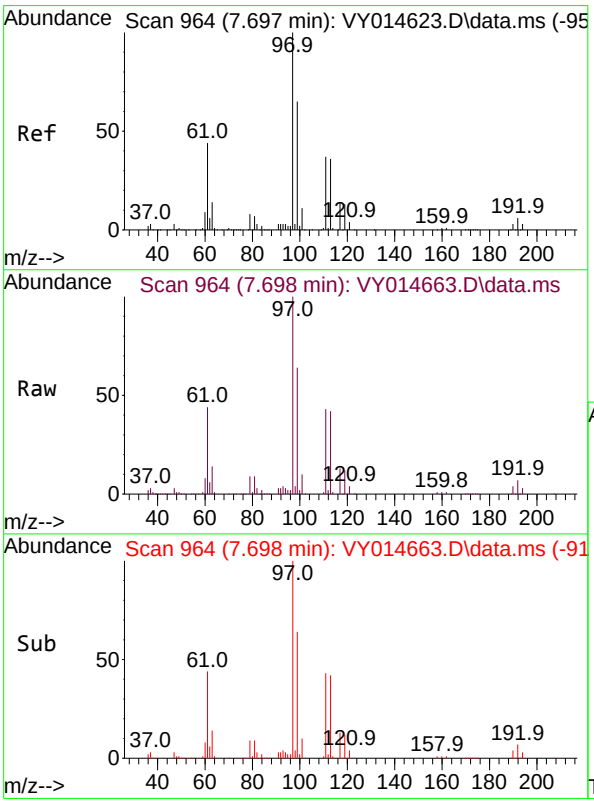
Ion	Ratio	Lower	Upper
56	100		
69	35.5	27.8	41.6
84	91.0	66.4	99.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

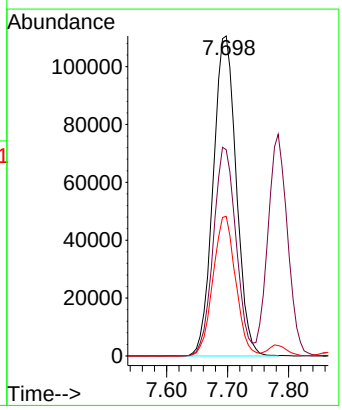


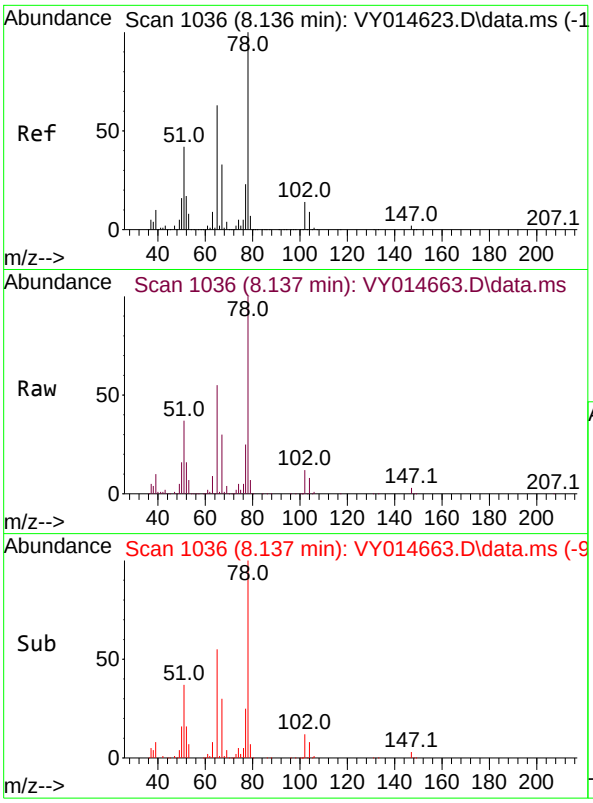


#32
1,1,1-Trichloroethane
Concen: 50.085 ug/l
RT: 7.698 min Scan# 964
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 97 Resp: 290926

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	42.9	35.1	52.7

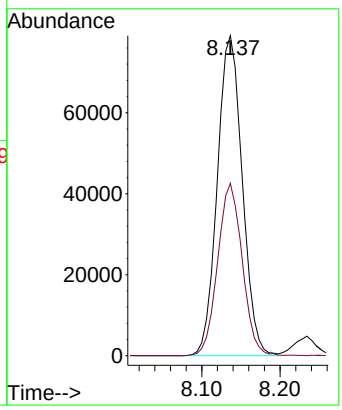




#33
1,2-Dichloroethane-d4
Concen: 49.950 ug/l
RT: 8.137 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 65 Resp: 17514

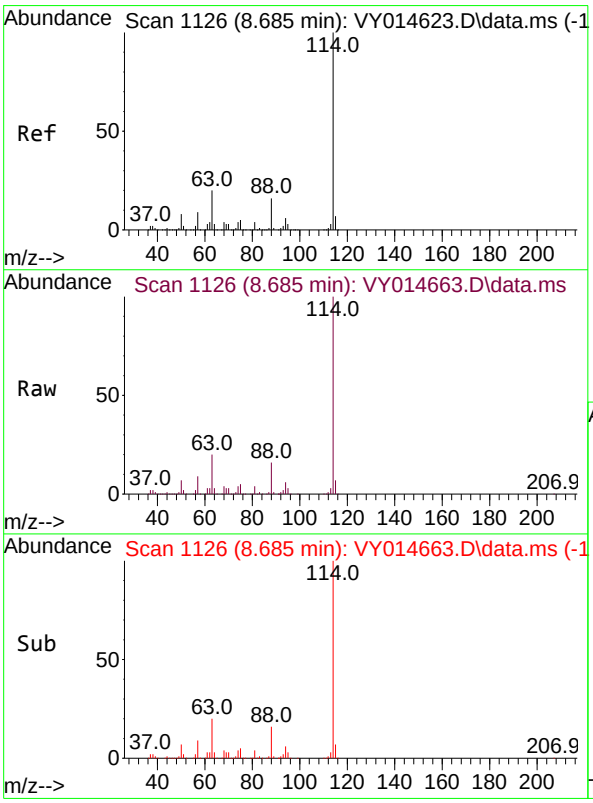
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

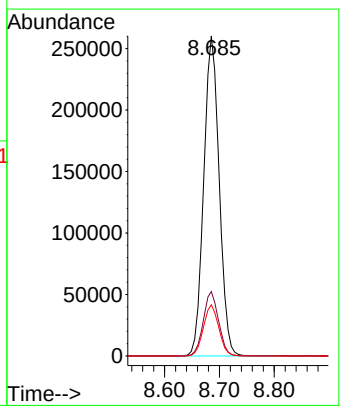
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

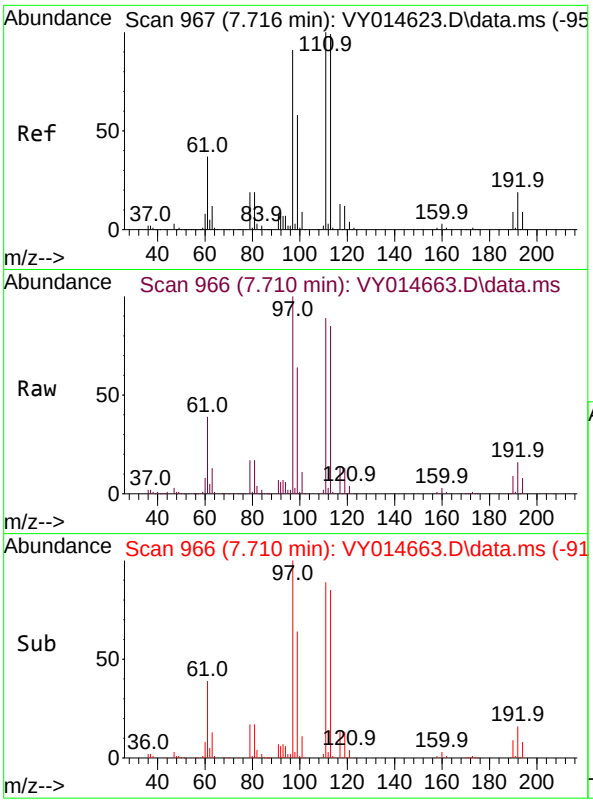


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:114 Resp: 507929

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	16.0	0.0	30.6

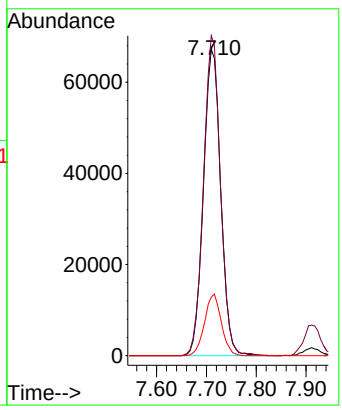




#35
Dibromofluoromethane
Concen: 49.991 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:113 Resp: 16163

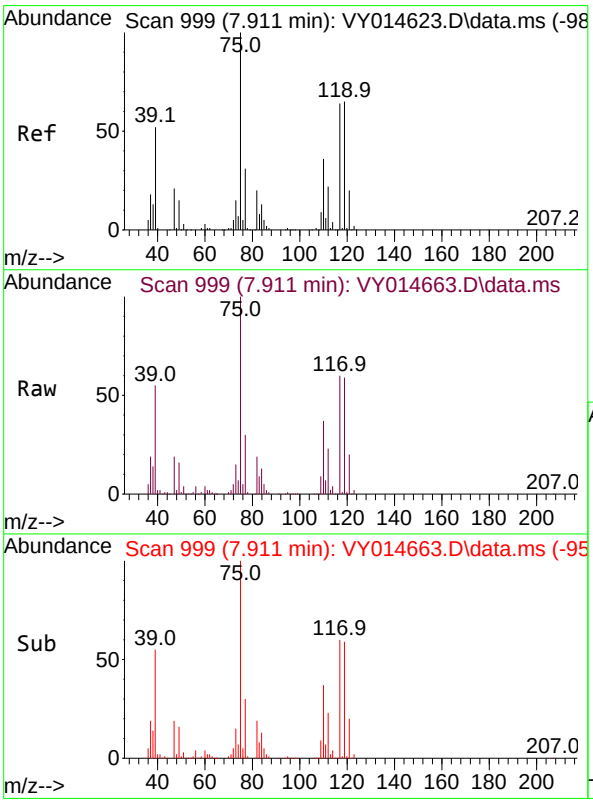
Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.3	121.9
192	19.6	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

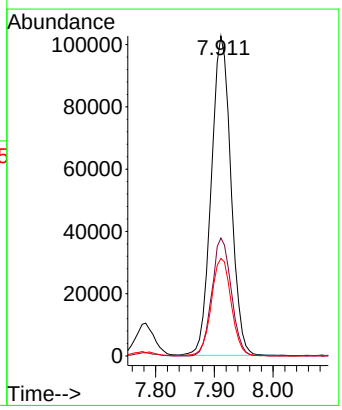
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

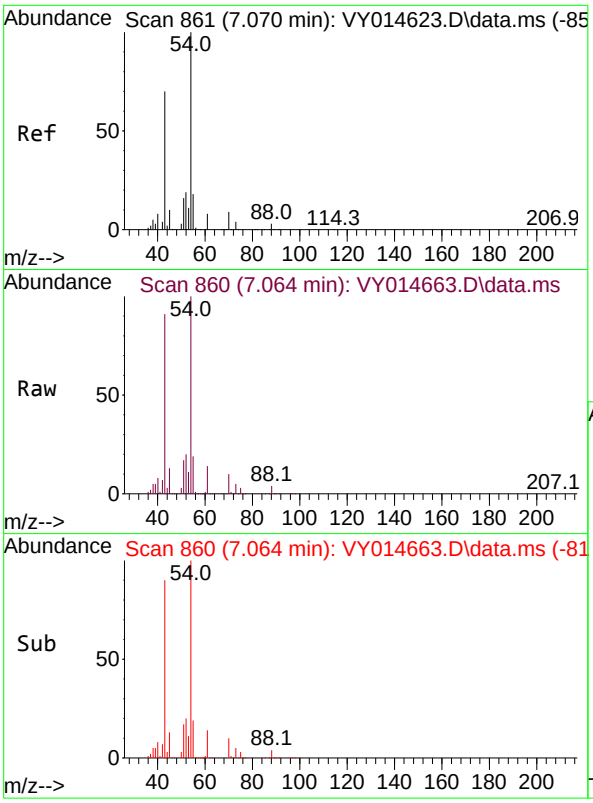


#36
1,1-Dichloropropene
Concen: 49.224 ug/l
RT: 7.911 min Scan# 999
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 75 Resp: 238015

Ion	Ratio	Lower	Upper
75	100		
110	36.5	17.8	53.5
77	31.0	24.4	36.6





#37
Ethyl Acetate
Concen: 58.767 ug/l
RT: 7.064 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

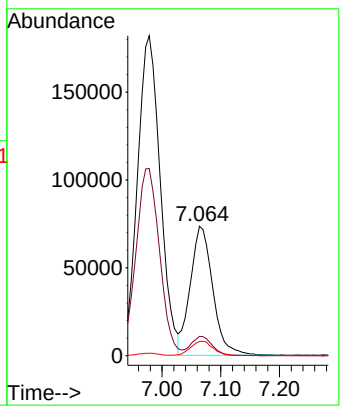
Tgt Ion: 43 Resp: 19564

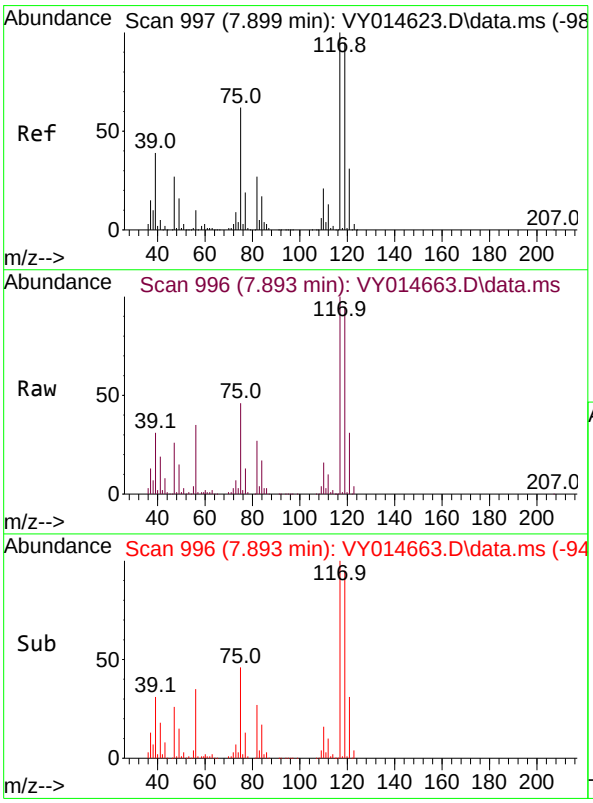
Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.1	15.1
70	11.2	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

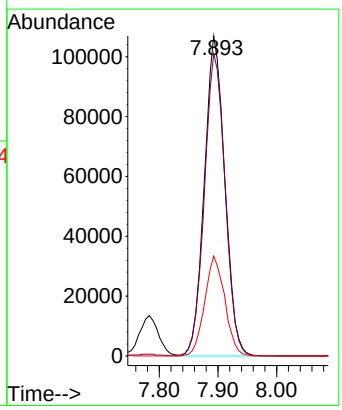


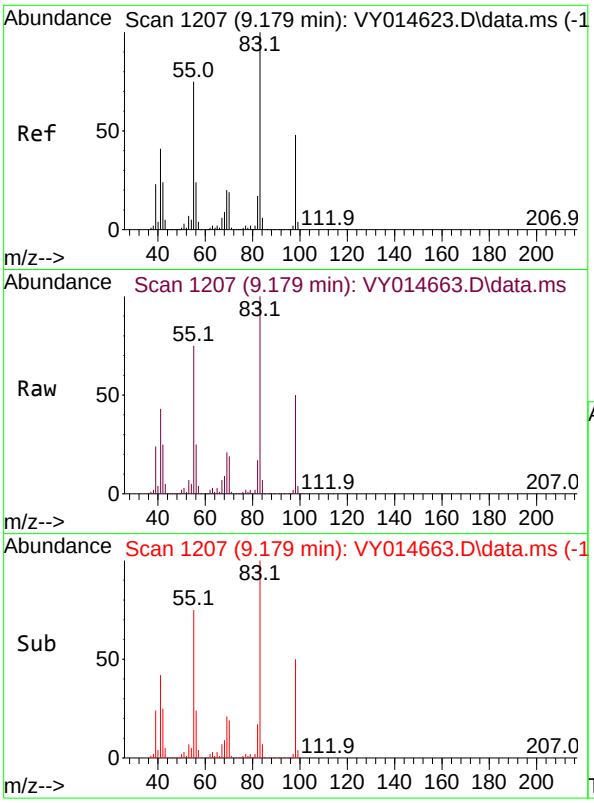


#38
Carbon Tetrachloride
Concen: 50.698 ug/l
RT: 7.893 min Scan# 996
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:117 Resp: 259136

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.4	114.6
121	31.2	25.8	38.6

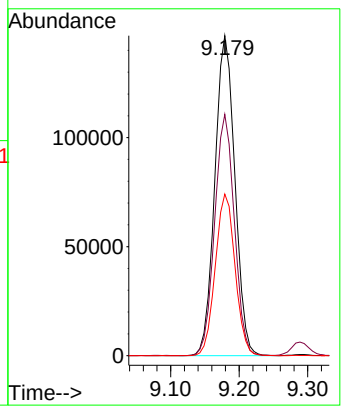




#39
Methylcyclohexane
Concen: 47.195 ug/l
RT: 9.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 83 Resp: 29731

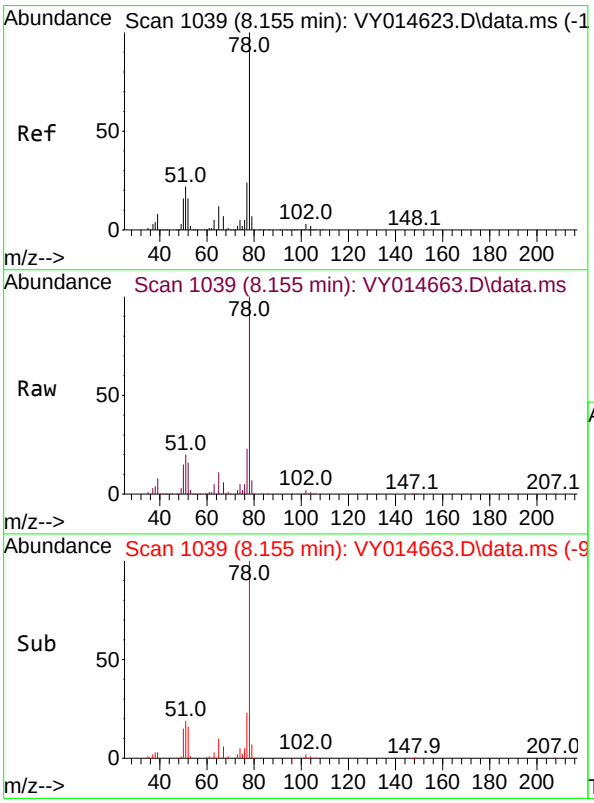
Ion	Ratio	Lower	Upper
83	100		
55	75.4	63.0	94.4
98	50.5	37.4	56.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

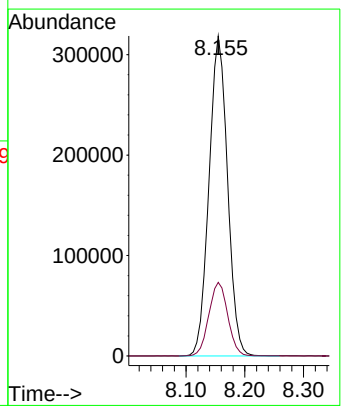
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

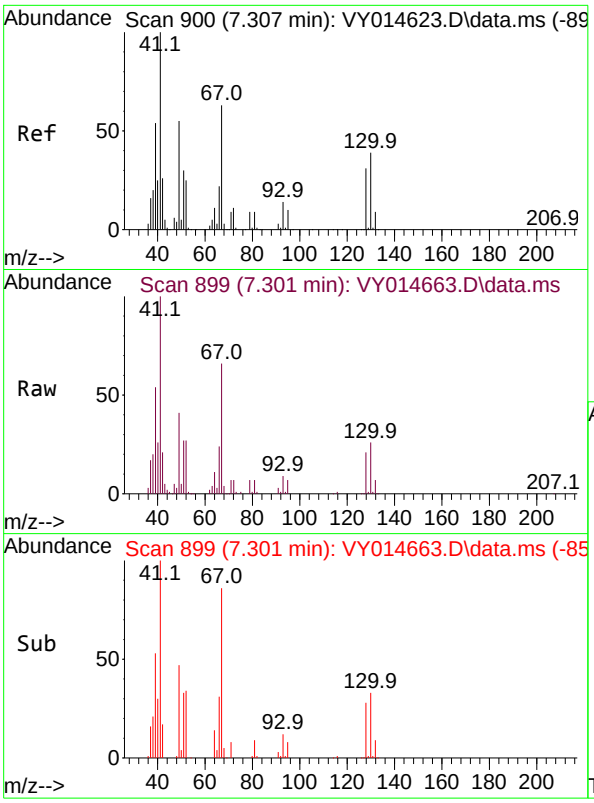


#40
Benzene
Concen: 50.710 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 78 Resp: 697370

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.6

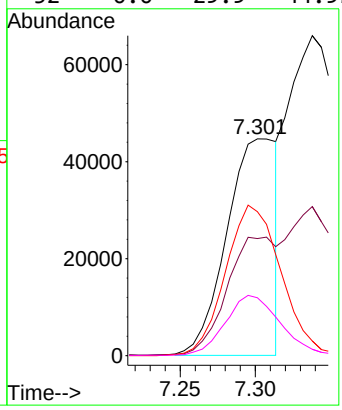




#41
Methacrylonitrile
Concen: 60.329 ug/l m
RT: 7.301 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 41 Resp: 10330

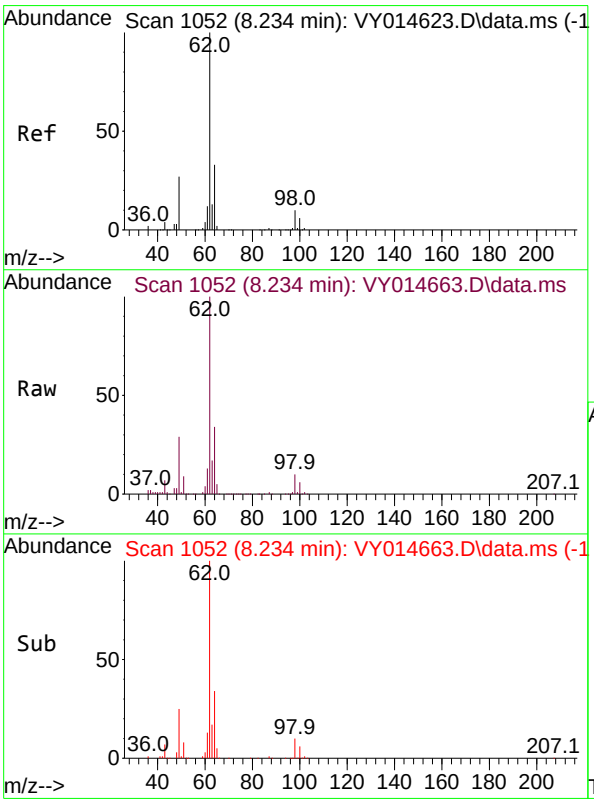
Ion	Ratio	Lower	Upper
41	100		
39	66.4	52.1	78.1
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

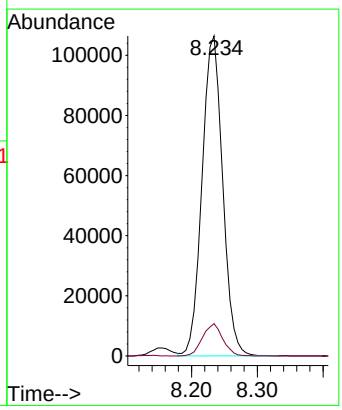
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

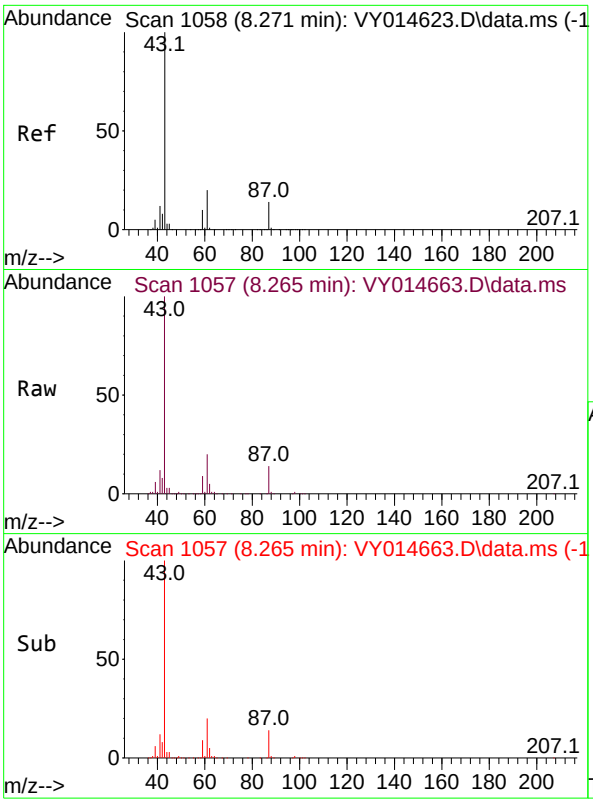


#42
1,2-Dichloroethane
Concen: 53.297 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 62 Resp: 232102

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	15.8

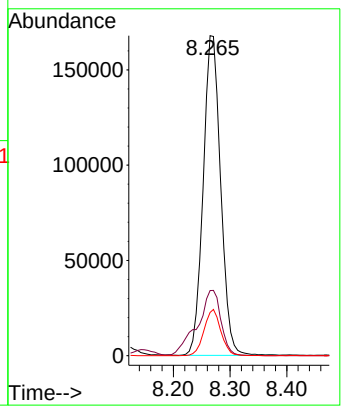




#43
Isopropyl Acetate
Concen: 56.652 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 43 Resp: 35927

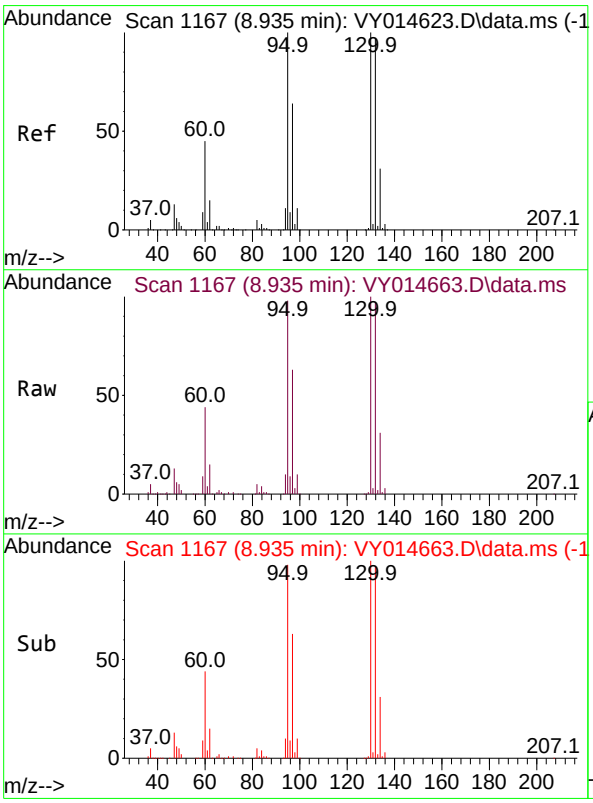
Ion	Ratio	Lower	Upper
43	100		
61	27.6	21.1	31.7
87	14.0	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

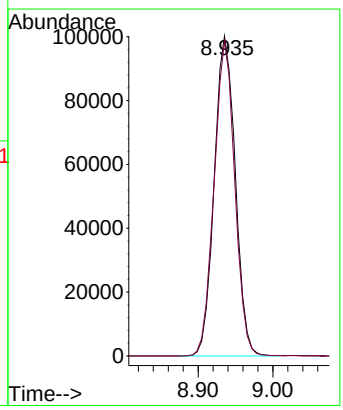
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

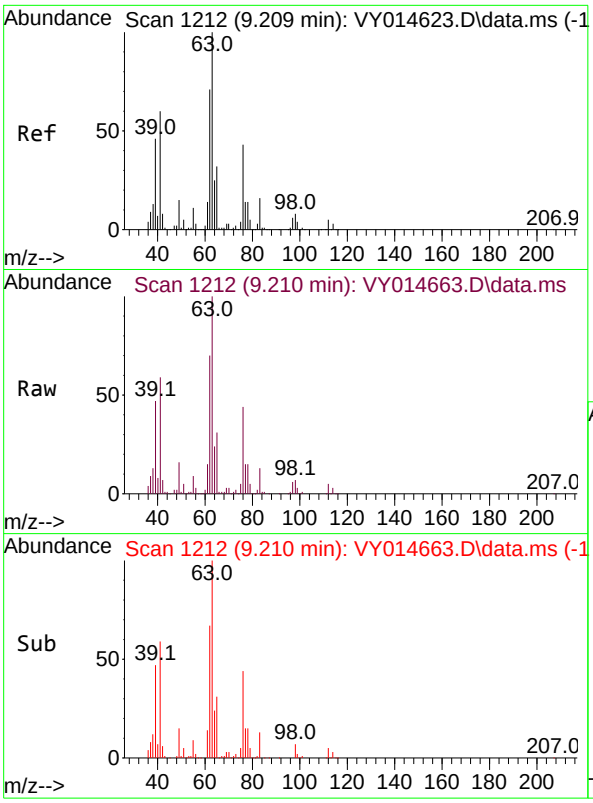


#44
Trichloroethene
Concen: 51.027 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:130 Resp: 196338

Ion	Ratio	Lower	Upper
130	100		
95	98.4	0.0	196.0

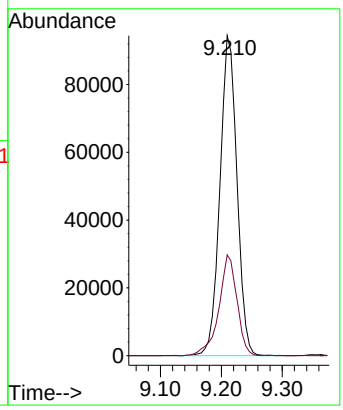




#45
1,2-Dichloropropane
Concen: 51.032 ug/l
RT: 9.210 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 63 Resp: 18325

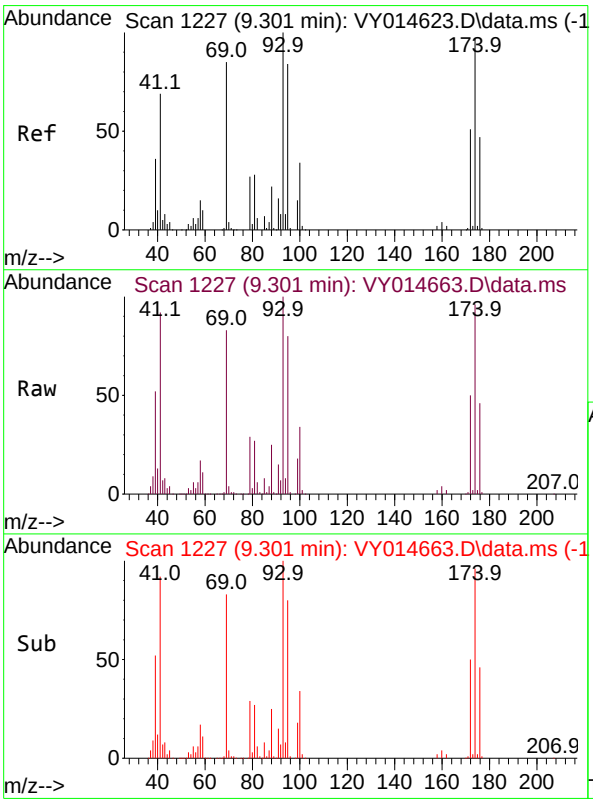
Ion	Ratio	Lower	Upper
63	100		
65	31.5	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

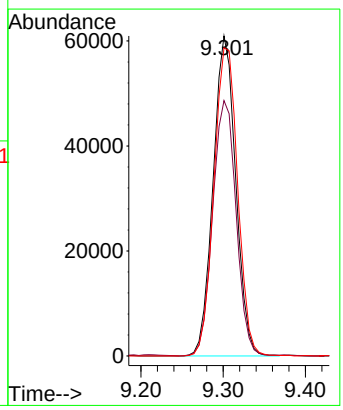
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

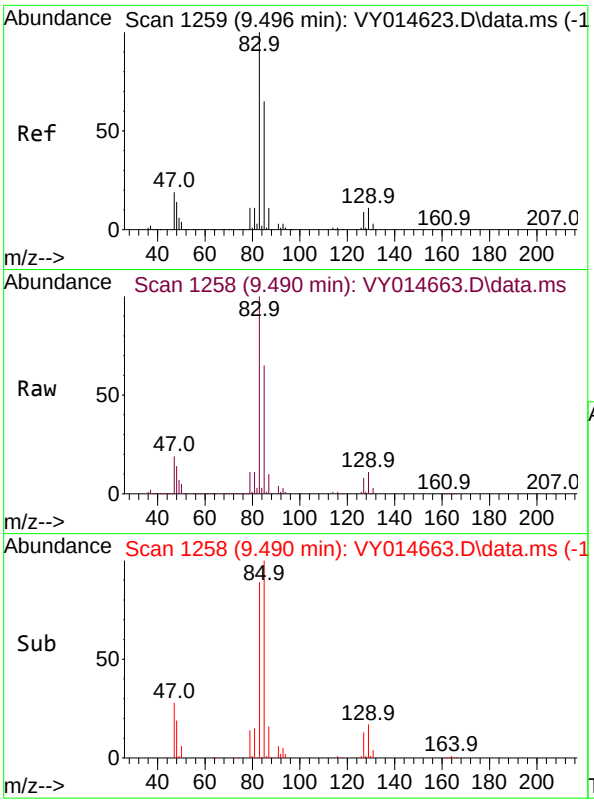


#46
Dibromomethane
Concen: 53.427 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 93 Resp: 116390

Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.6	100.0
174	101.2	84.8	127.2

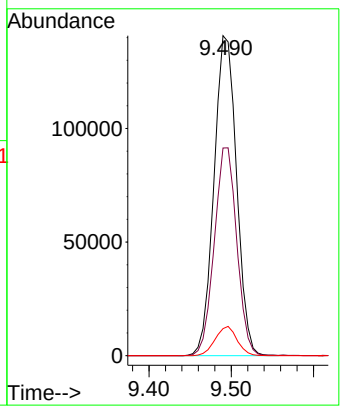




#47
Bromodichloromethane
Concen: 52.335 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 83 Resp: 26871

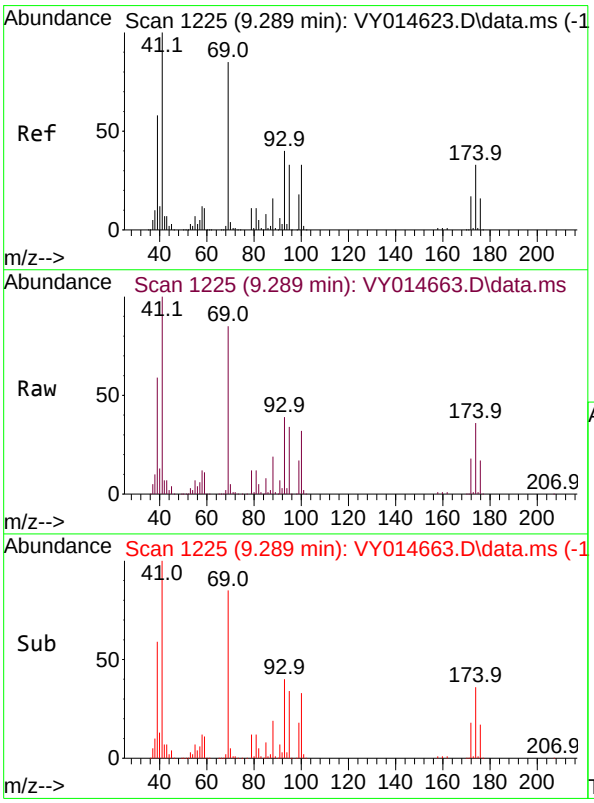
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.1	75.1
127	8.4	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

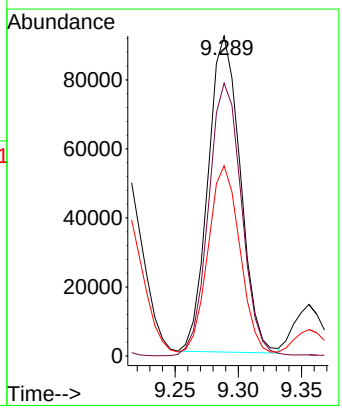
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

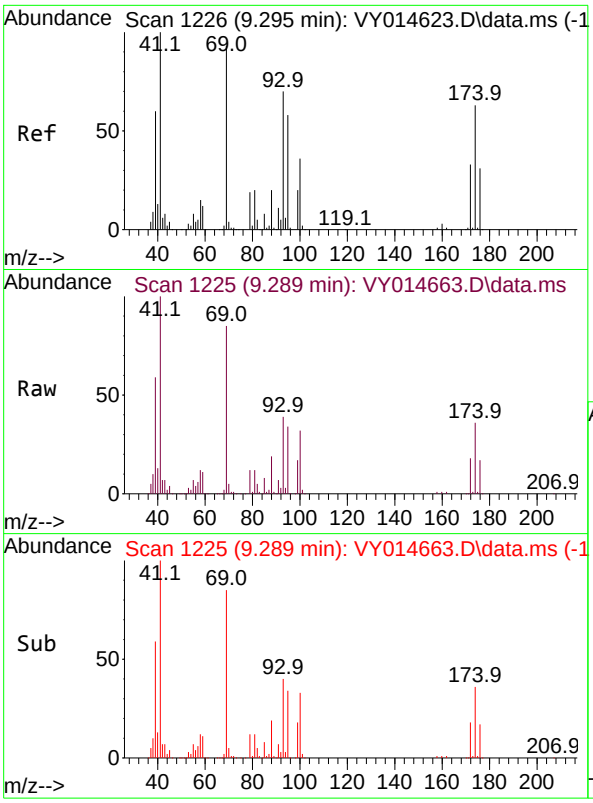


#48
Methyl methacrylate
Concen: 56.948 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 41 Resp: 162506

Ion	Ratio	Lower	Upper
41	100		
69	88.4	64.5	96.7
39	59.8	50.8	76.2

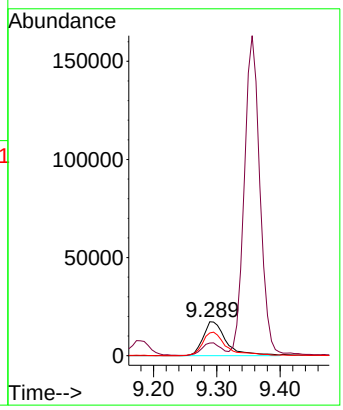




#49
1,4-Dioxane
Concen: 1244.023 ug/l
RT: 9.289 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 88 Resp: 4419

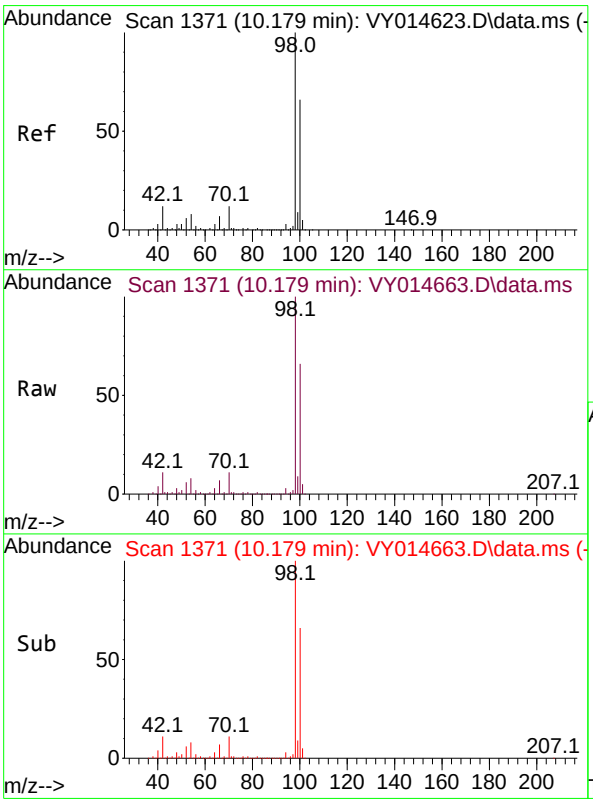
Ion	Ratio	Lower	Upper
88	100		
43	31.3	0.0	0.0#
58	71.5	30.9	46.3#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

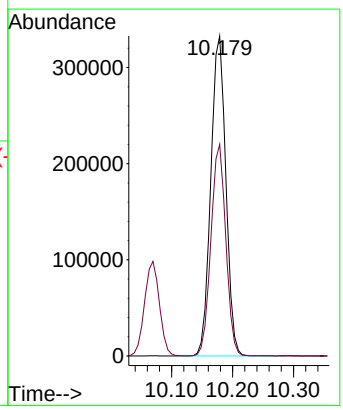
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

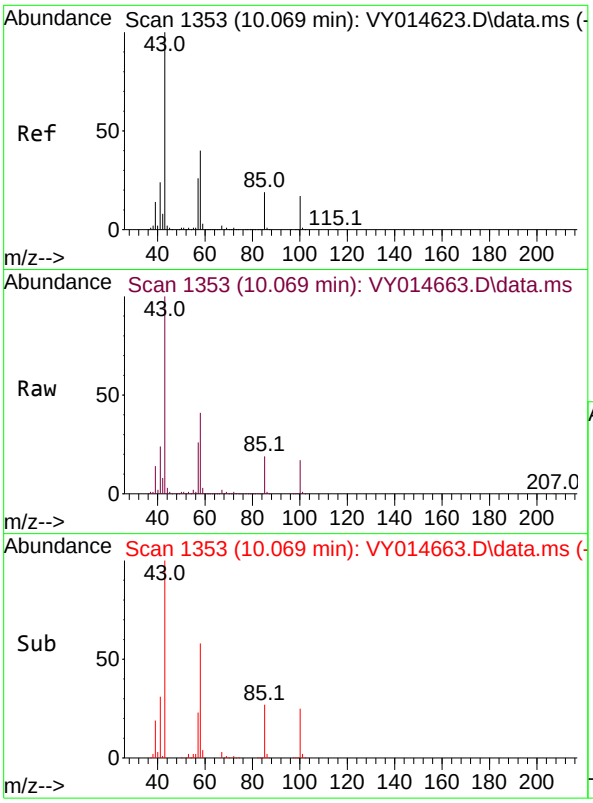


#50
Toluene-d8
Concen: 47.848 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 98 Resp: 570379

Ion	Ratio	Lower	Upper
98	100		
100	65.3	50.1	75.1

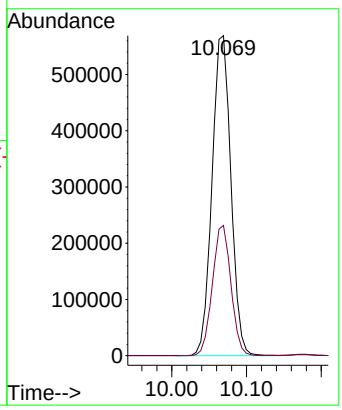




#51
4-Methyl-2-Pentanone
Concen: 299.151 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 43 Resp: 99607

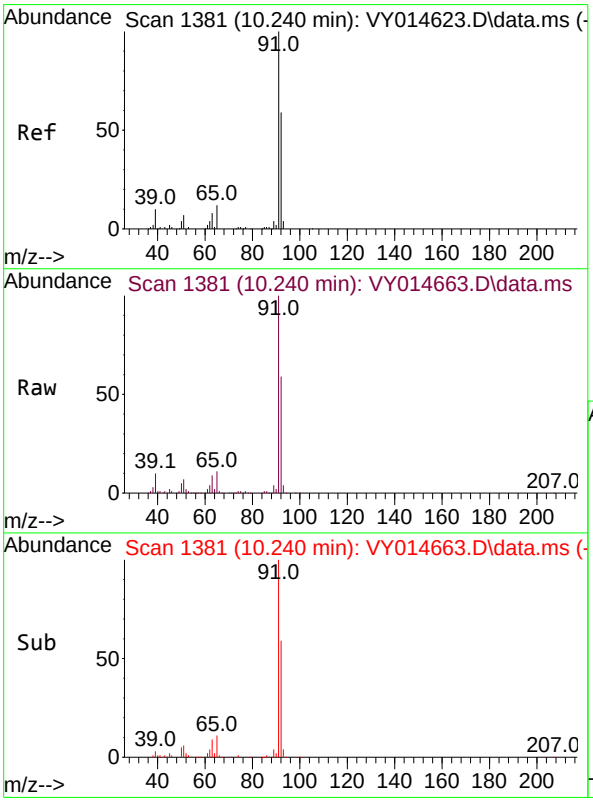
Ion	Ratio	Lower	Upper
43	100		
58	40.1	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

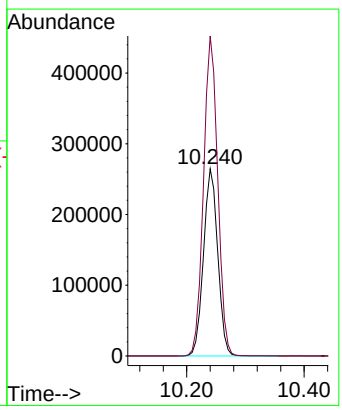
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

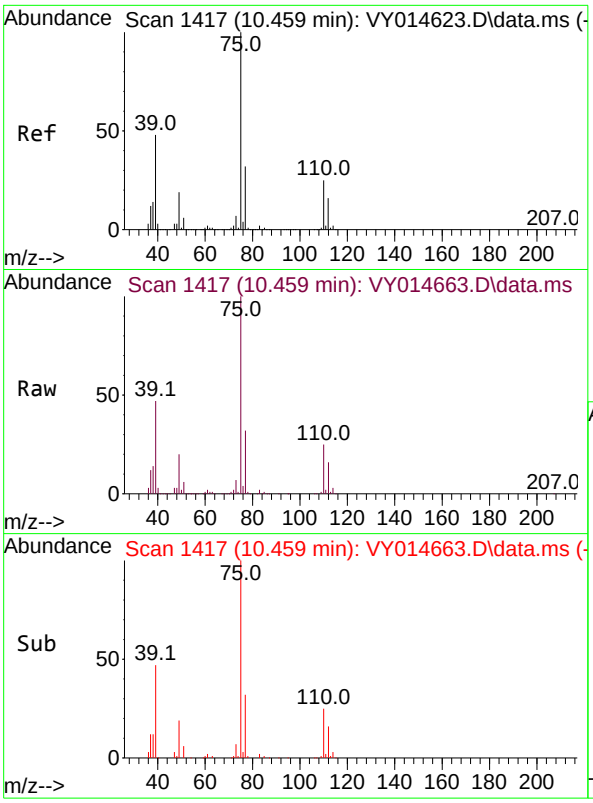


#52
Toluene
Concen: 50.549 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 92 Resp: 444829

Ion	Ratio	Lower	Upper
92	100		
91	170.9	143.8	215.6

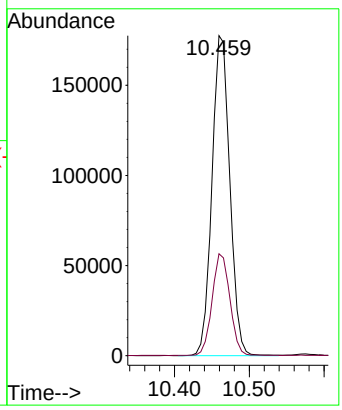




#53
t-1,3-Dichloropropene
Concen: 52.530 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 75 Resp: 29502

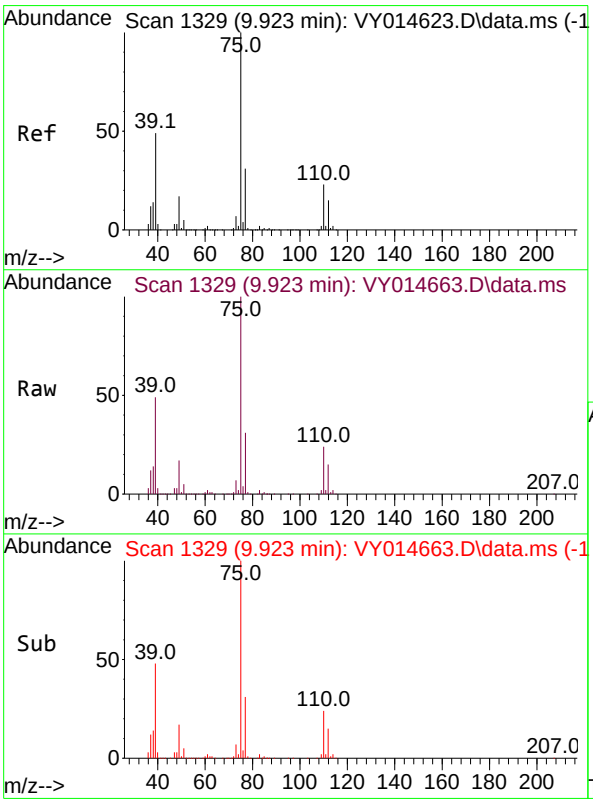
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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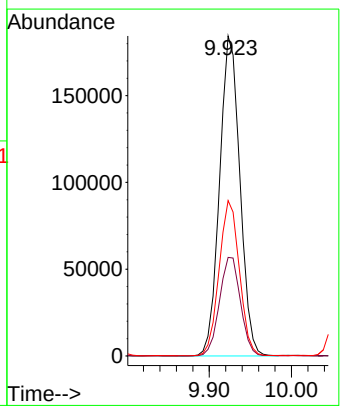
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

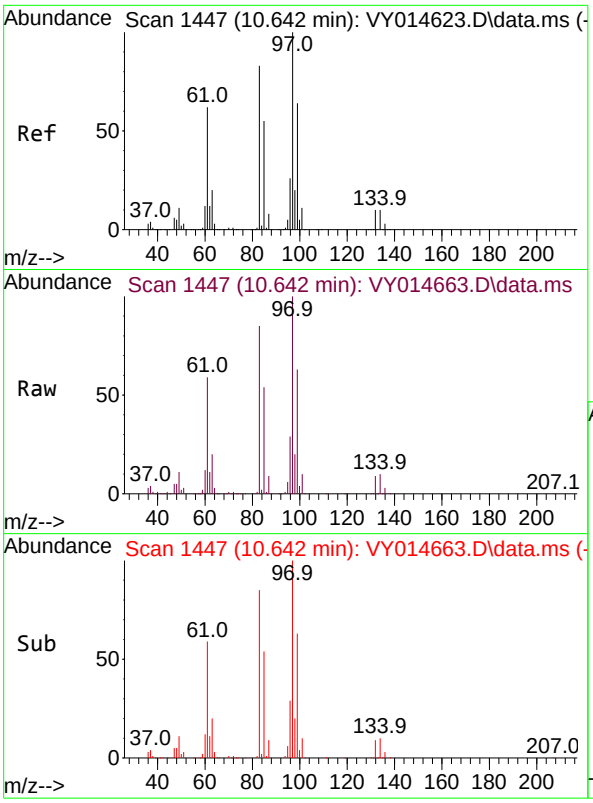


#54
cis-1,3-Dichloropropene
Concen: 51.871 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 75 Resp: 316801

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.2	36.4
39	48.5	42.2	63.4

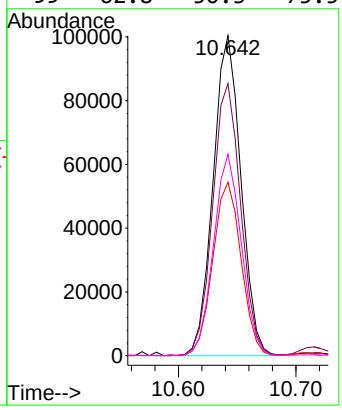




#55
1,1,2-Trichloroethane
Concen: 54.570 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 97 Resp: 16559

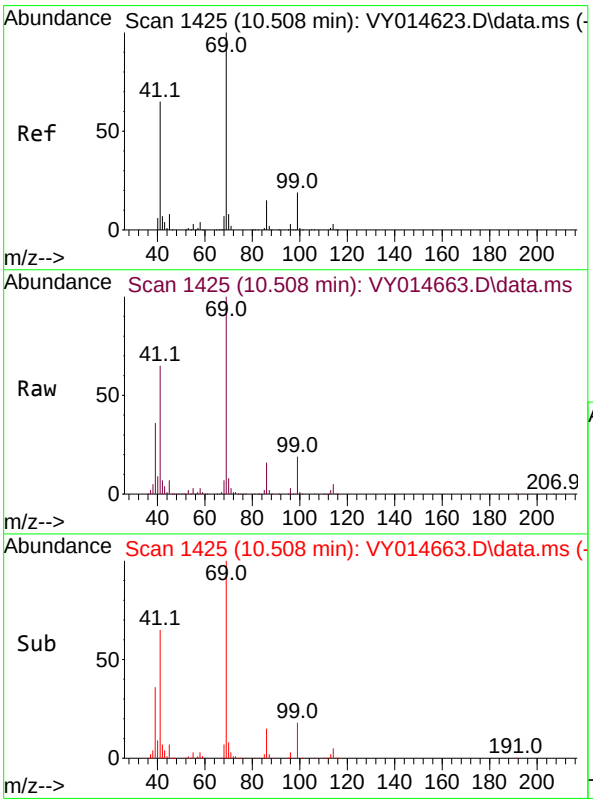
Ion	Ratio	Lower	Upper
97	100		
83	84.9	72.0	108.0
85	54.1	45.4	68.0
99	62.8	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

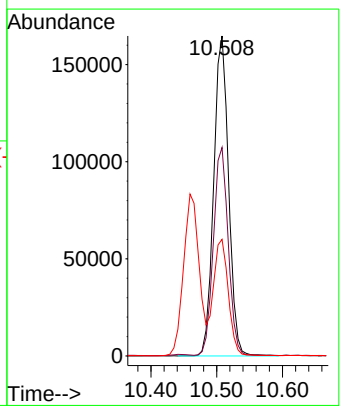
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

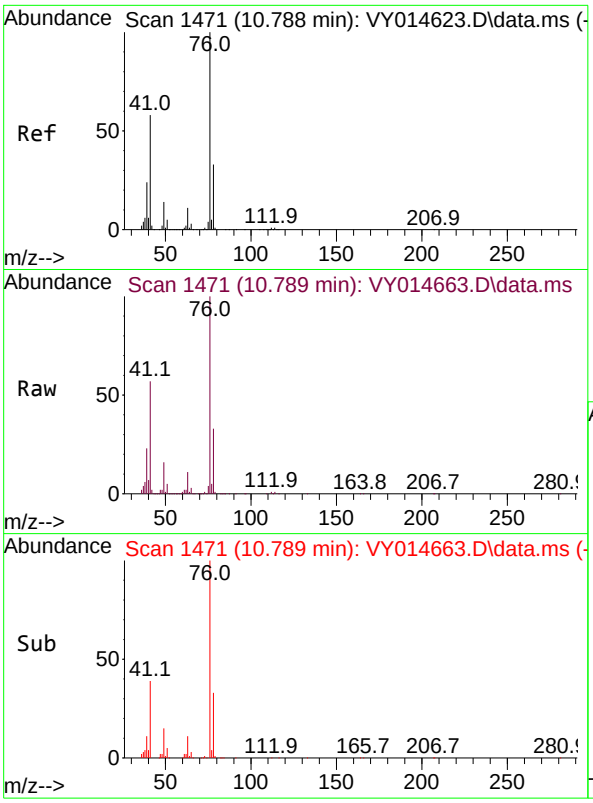


#56
Ethyl methacrylate
Concen: 55.941 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 69 Resp: 259186

Ion	Ratio	Lower	Upper
69	100		
41	64.8	57.6	86.4
39	36.7	34.1	51.1

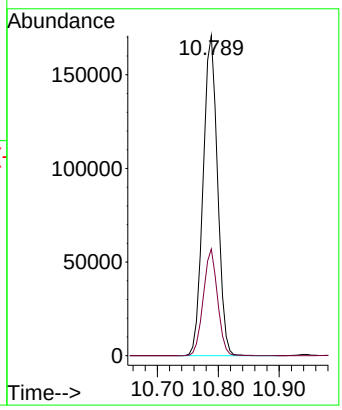




#57
1,3-Dichloropropane
Concen: 53.754 ug/l
RT: 10.789 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 76 Resp: 28134

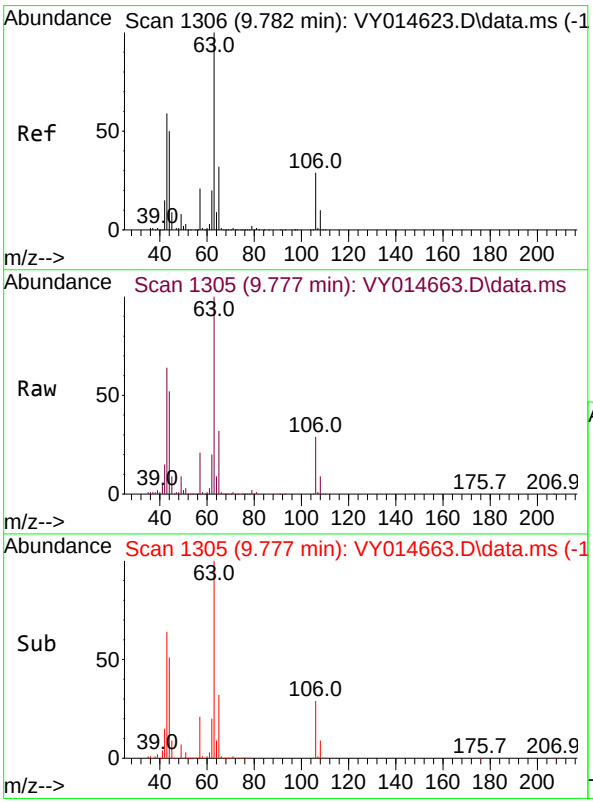
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

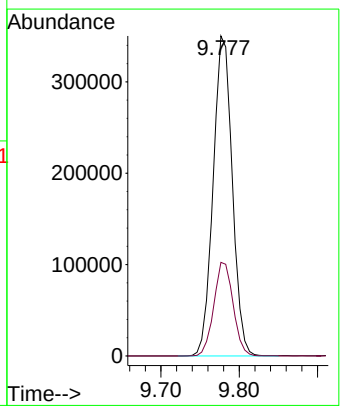
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

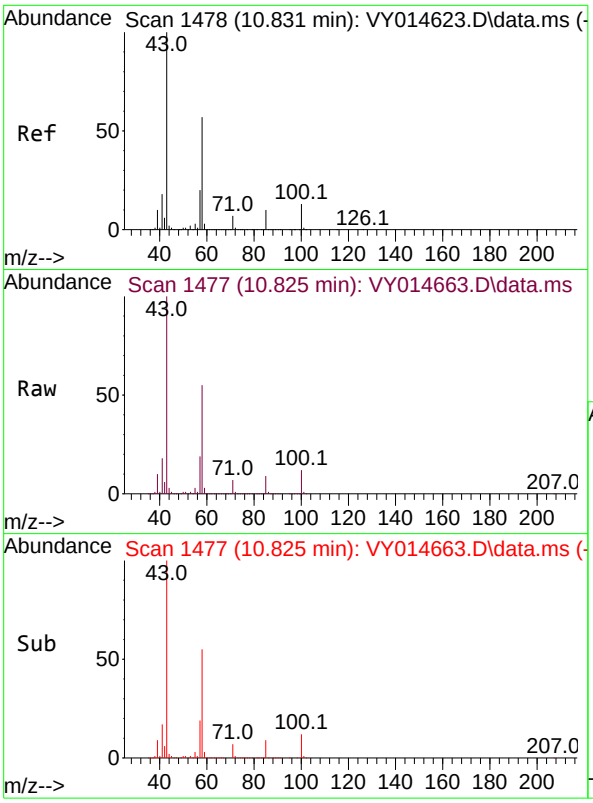


#58
2-Chloroethyl Vinyl ether
Concen: 275.760 ug/l
RT: 9.777 min Scan# 1305
Delta R.T. -0.005 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 63 Resp: 595315

Ion	Ratio	Lower	Upper
63	100		
106	29.5	21.2	31.8





#59
2-Hexanone
Concen: 301.691 ug/l
RT: 10.825 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

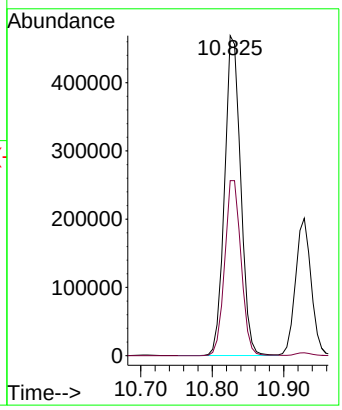
Tgt Ion: 43 Resp: 73256

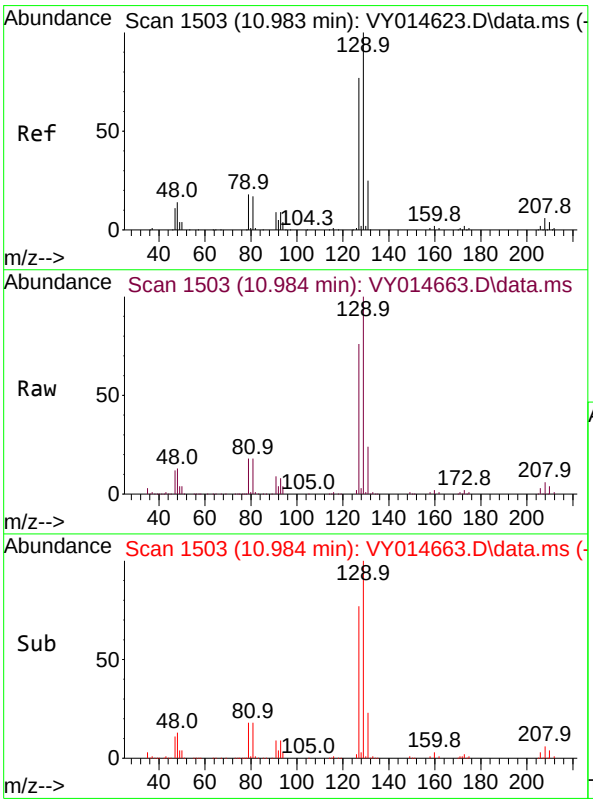
Ion	Ratio	Lower	Upper
43	100		
58	55.7	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

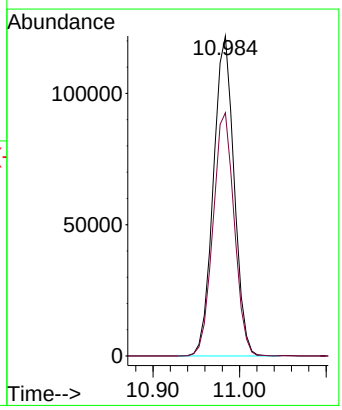


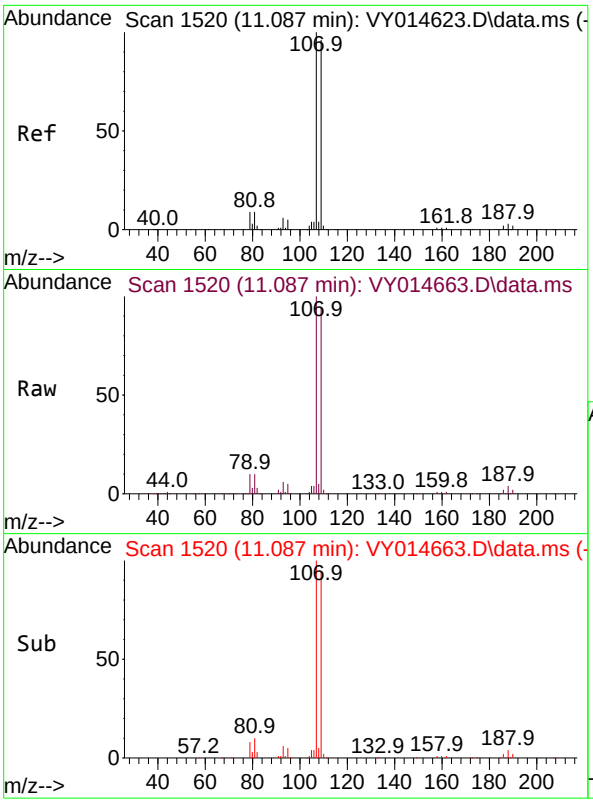


#60
Dibromochloromethane
Concen: 54.415 ug/l
RT: 10.984 min Scan# 1503
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:129 Resp: 202454

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5

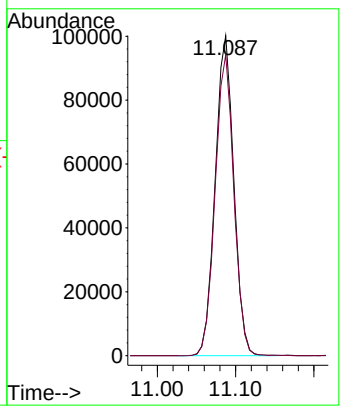




#61
1,2-Dibromoethane
Concen: 54.687 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:107 Resp: 16555

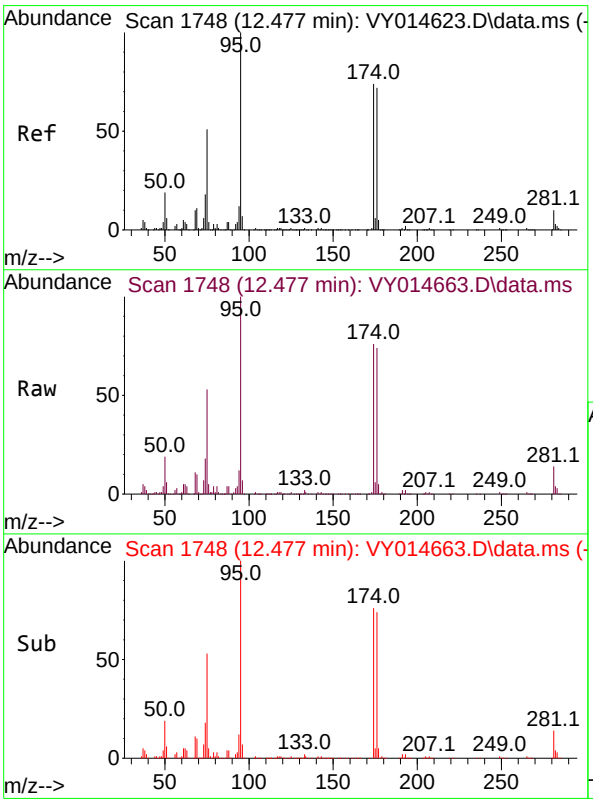
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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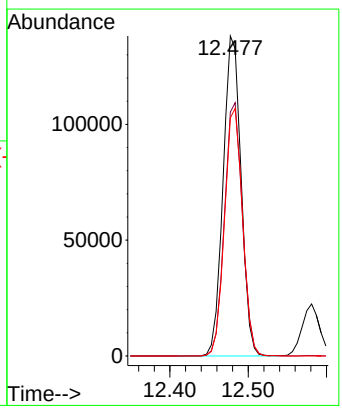
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

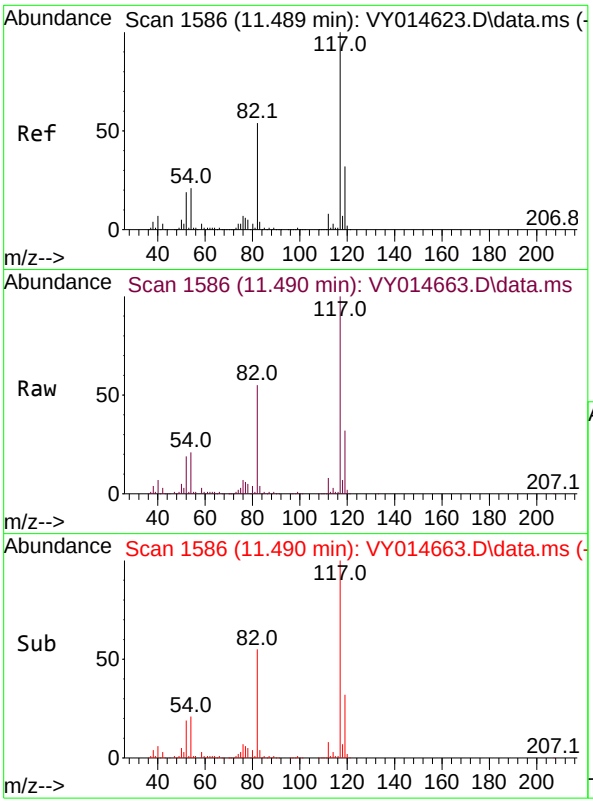


#62
4-Bromofluorobenzene
Concen: 48.195 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 95 Resp: 220294

Ion	Ratio	Lower	Upper
95	100		
174	78.8	0.0	178.2
176	77.6	0.0	173.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

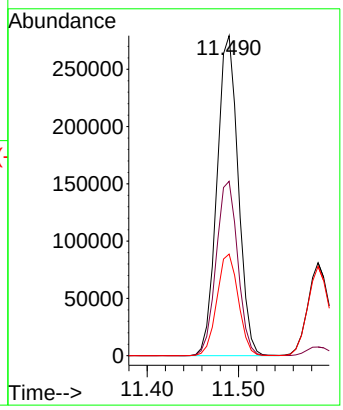
Tgt Ion:117 Resp: 45144

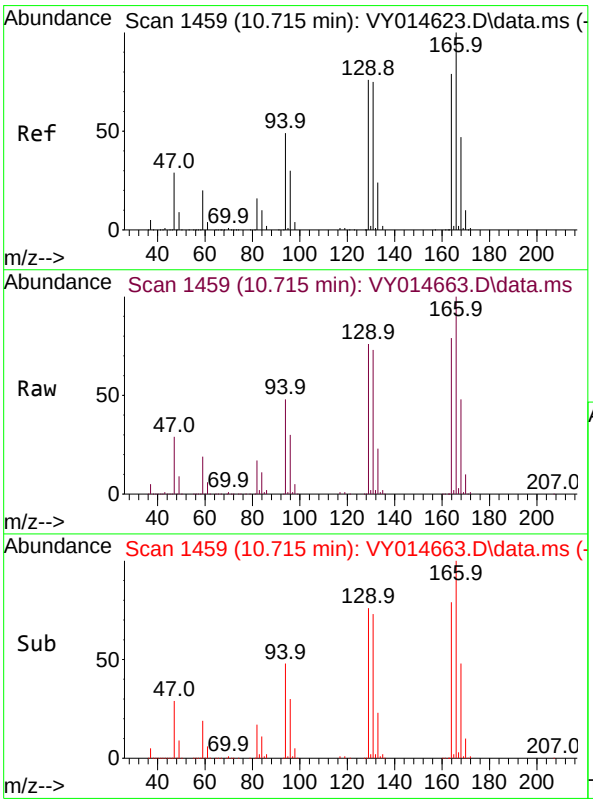
Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	31.8	26.3	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

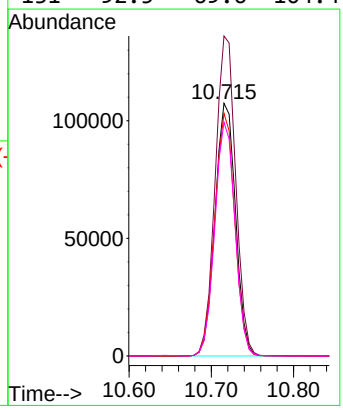


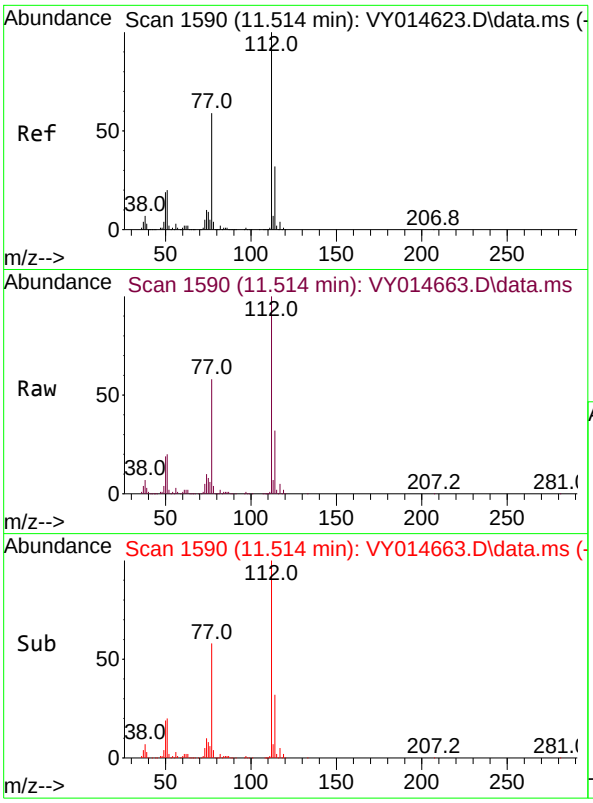


#64
Tetrachloroethene
Concen: 51.214 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:164 Resp: 185947

Ion	Ratio	Lower	Upper
164	100		
166	126.7	103.0	154.6
129	96.0	77.2	115.8
131	92.5	69.6	104.4

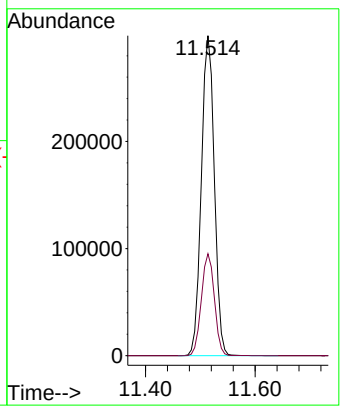




#65
Chlorobenzene
Concen: 51.011 ug/l
RT: 11.514 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:112 Resp: 49072

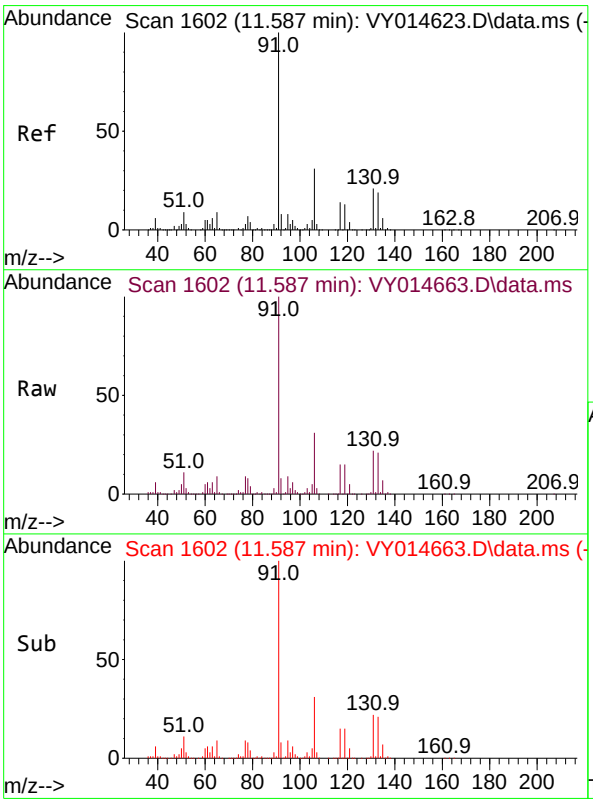
Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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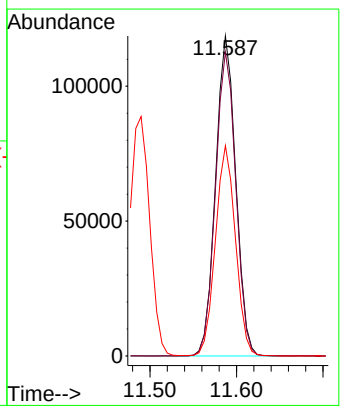
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

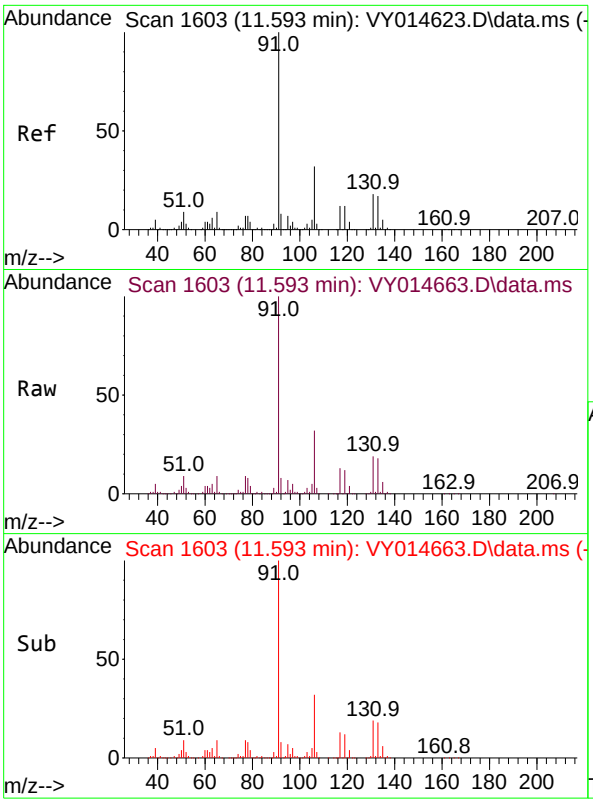


#66
1,1,1,2-Tetrachloroethane
Concen: 52.947 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:131 Resp: 192050

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.5	142.6
119	65.3	31.6	94.7





#67
Ethyl Benzene
Concen: 50.028 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

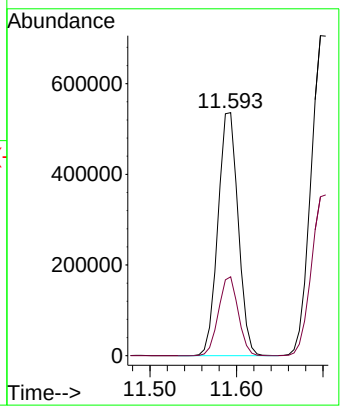
Tgt Ion: 91 Resp: 86894

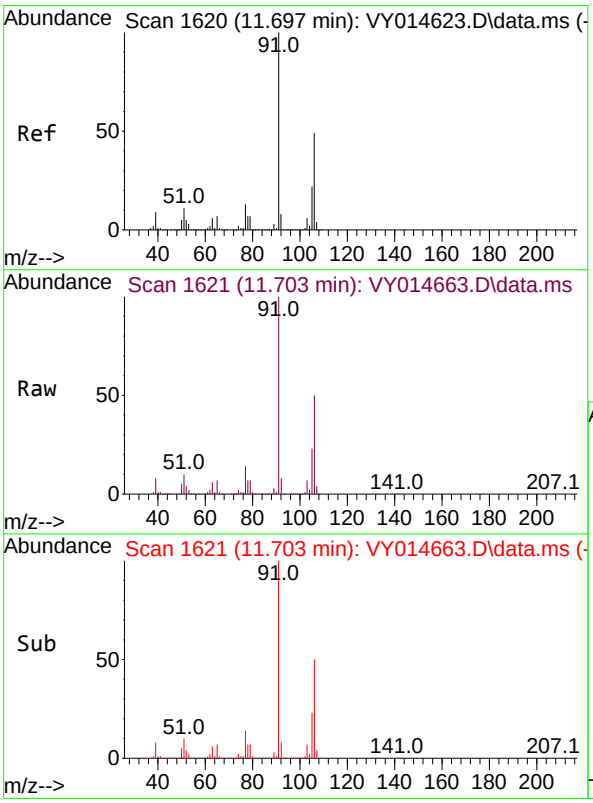
Ion	Ratio	Lower	Upper
91	100		
106	32.4	24.6	36.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

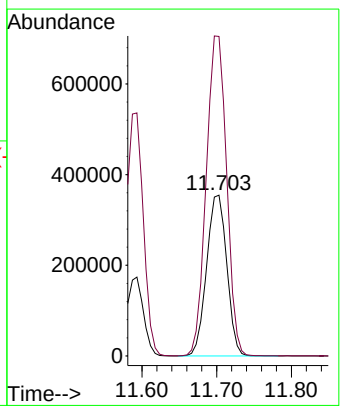


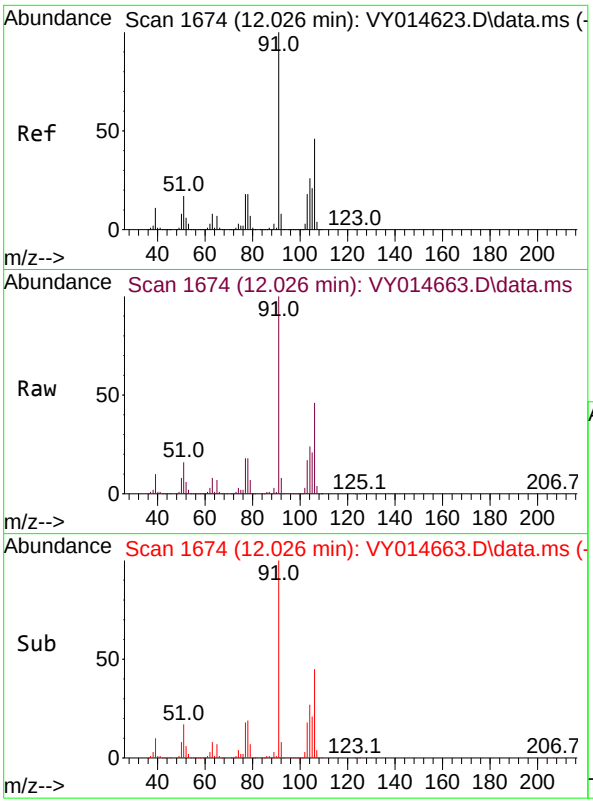


#68
m/p-Xylenes
Concen: 100.258 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:106 Resp: 664736

Ion	Ratio	Lower	Upper
106	100		
91	201.2	166.1	249.1





#69
o-Xylene
Concen: 50.752 ug/l
RT: 12.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

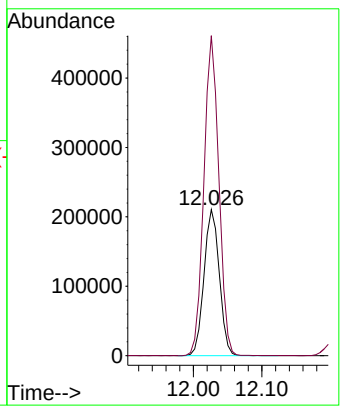
Tgt Ion:106 Resp: 32775

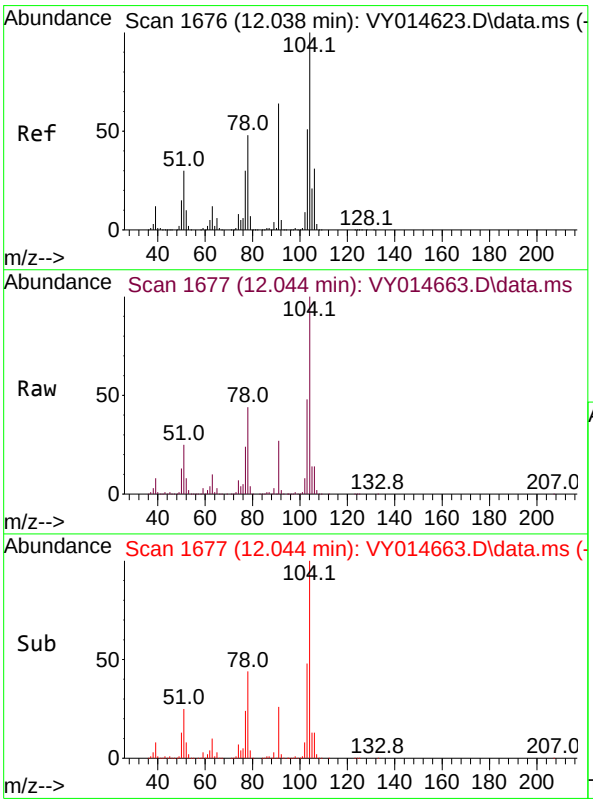
Ion	Ratio	Lower	Upper
106	100		
91	213.9	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

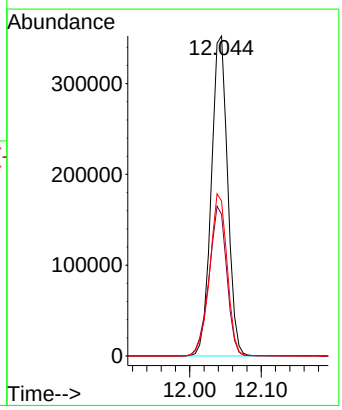


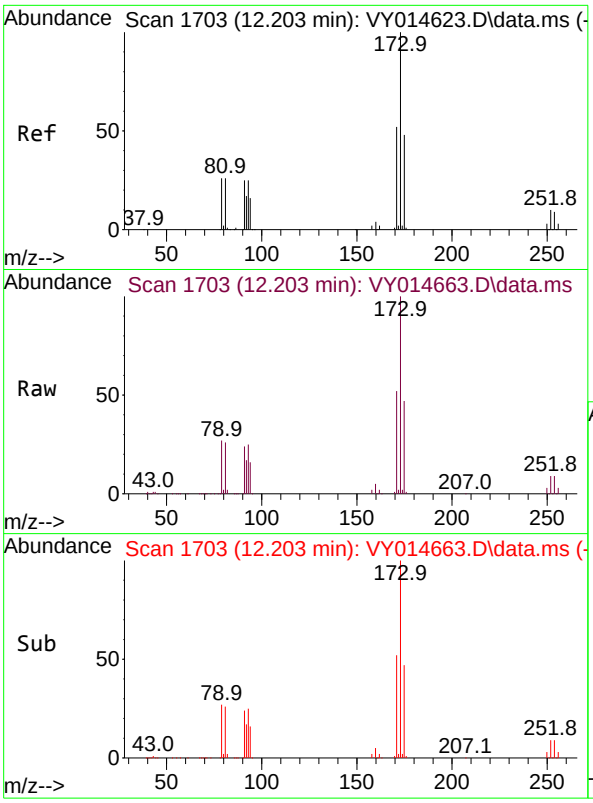


#70
Styrene
Concen: 51.457 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:104 Resp: 560076

Ion	Ratio	Lower	Upper
104	100		
78	50.9	41.5	62.3
103	54.2	44.6	67.0

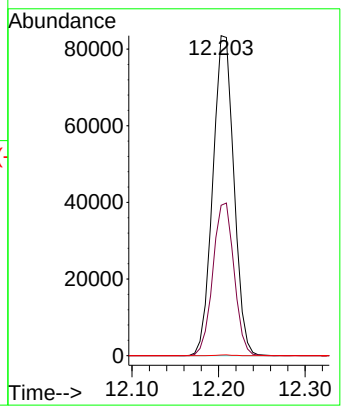




#71
Bromoform
Concen: 57.408 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:173 Resp: 14114

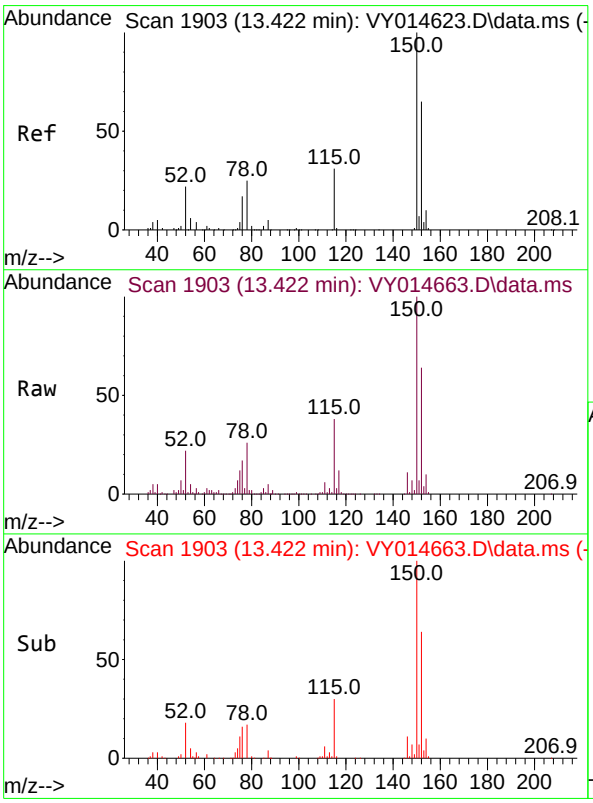
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.6	73.8
254	0.2	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

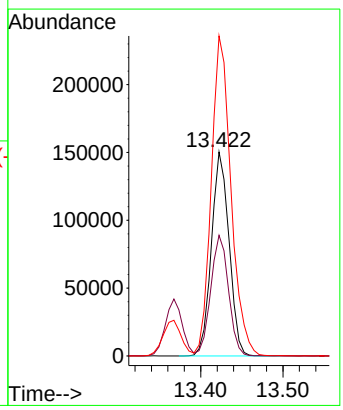
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

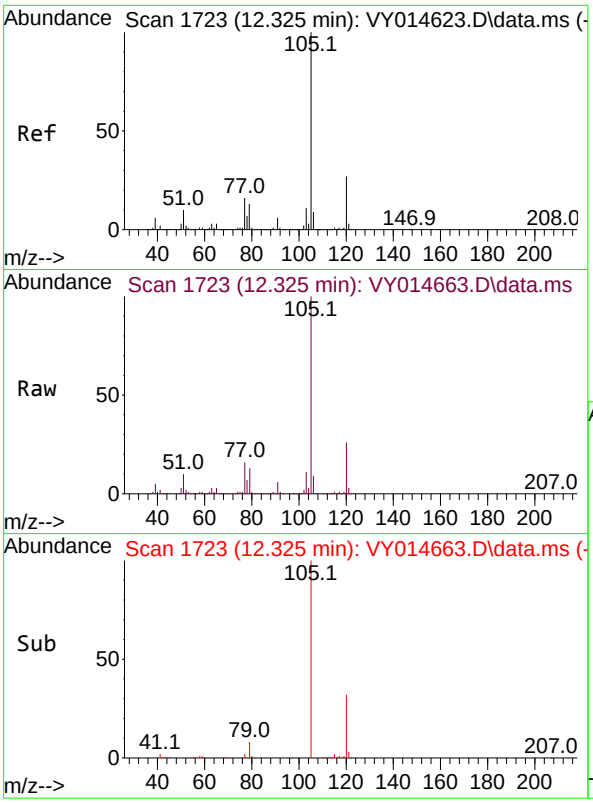


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:152 Resp: 223671

Ion	Ratio	Lower	Upper
152	100		
115	59.6	28.8	86.5
150	175.2	0.0	348.8

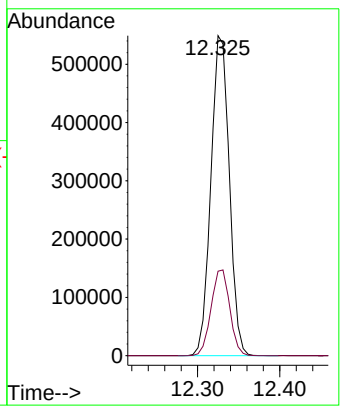




#73
Isopropylbenzene
Concen: 48.716 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:105 Resp: 85318

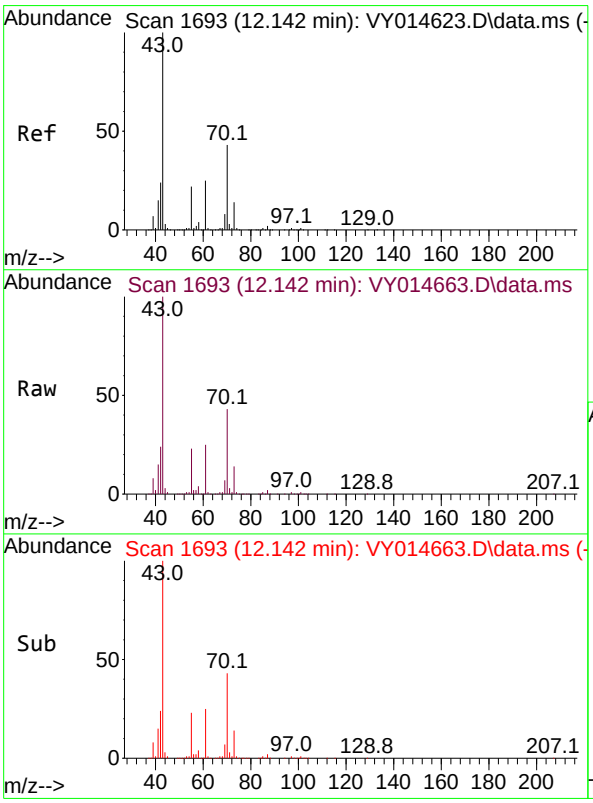
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

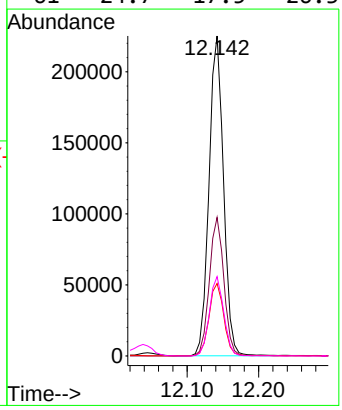
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

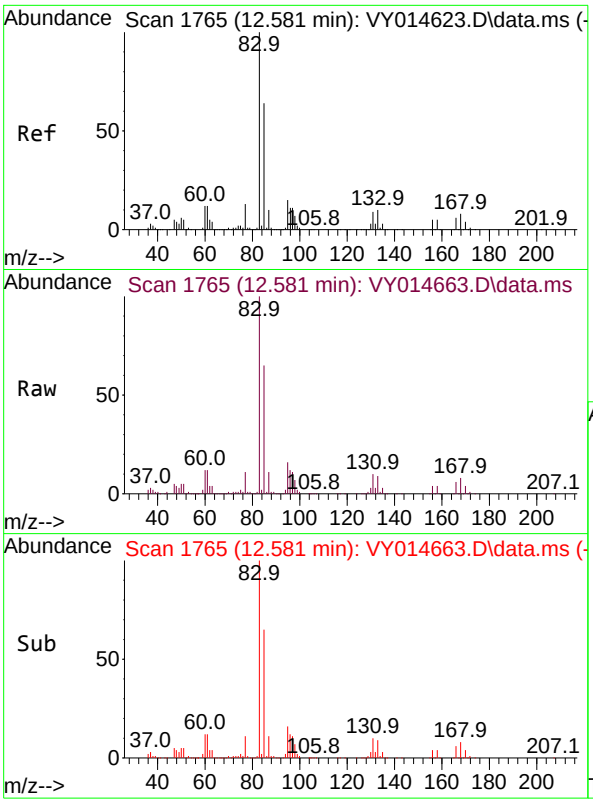


#74
N-amyl acetate
Concen: 53.950 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 43 Resp: 316452

Ion	Ratio	Lower	Upper
43	100		
70	43.7	29.7	44.5
55	23.1	18.3	27.5
61	24.7	17.5	26.3

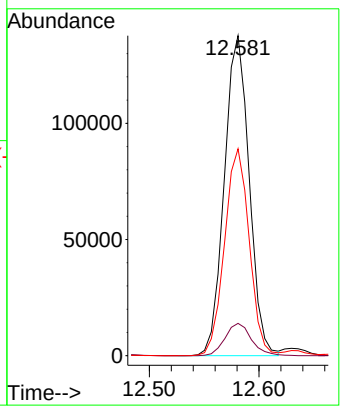




#75
1,1,2,2-Tetrachloroethane
Concen: 54.391 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 83 Resp: 21722

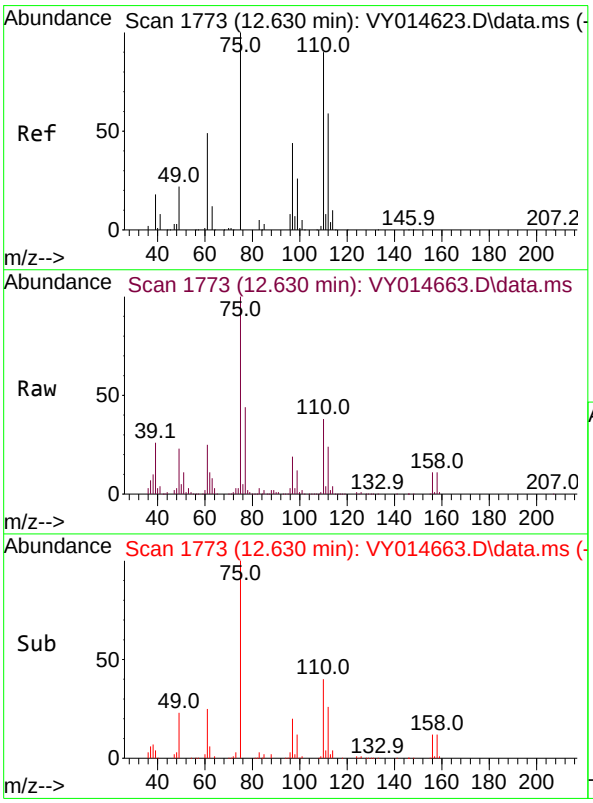
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.4	16.2
85	64.2	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

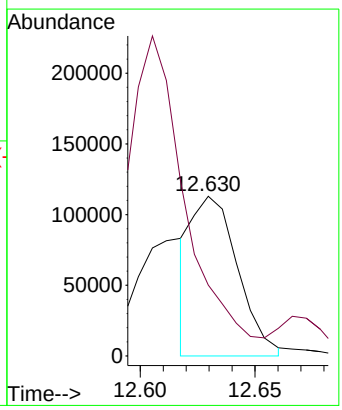
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

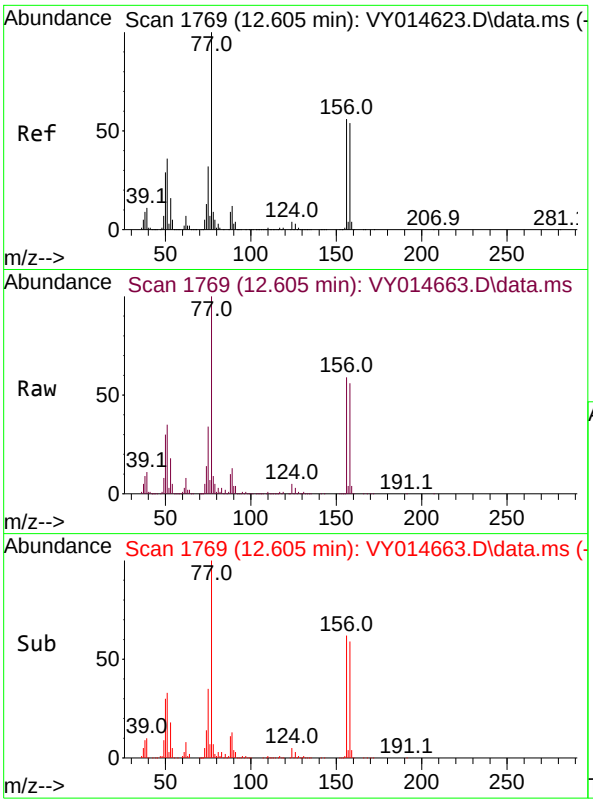


#76
1,2,3-Trichloropropane
Concen: 56.074 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 75 Resp: 158403

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

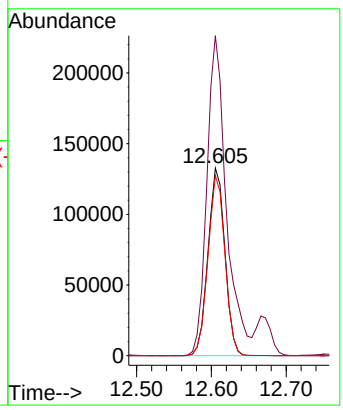




#77
Bromobenzene
Concen: 52.236 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:156 Resp: 20882

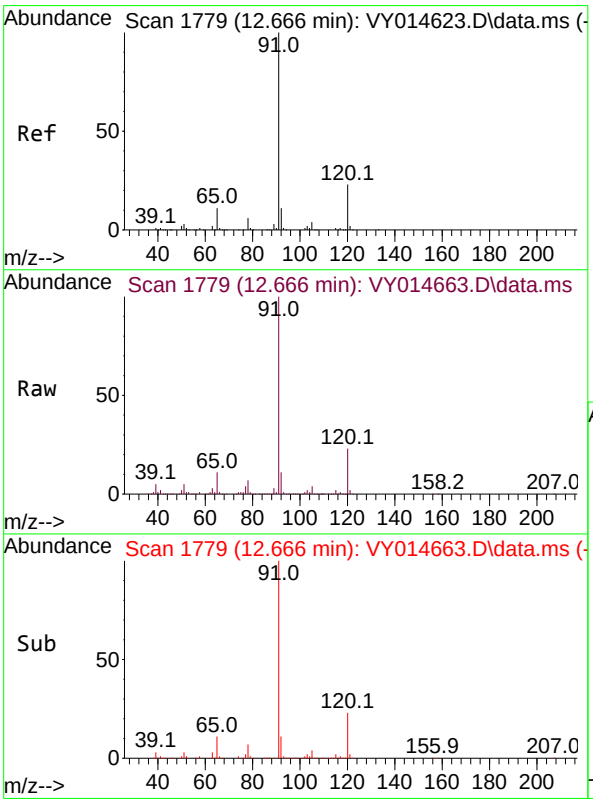
Ion	Ratio	Lower	Upper
156	100		
77	196.7	92.8	278.6
158	96.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

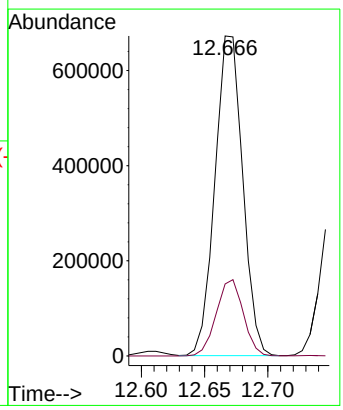
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

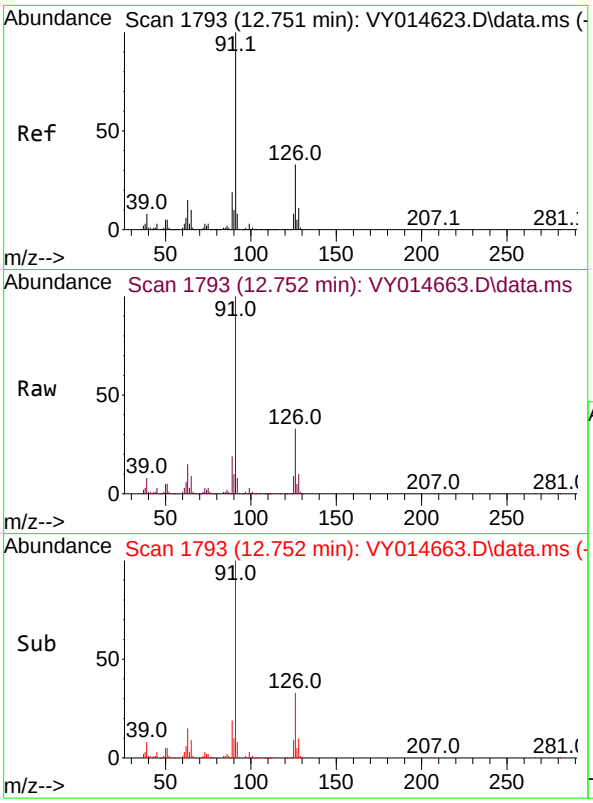


#78
n-propylbenzene
Concen: 48.532 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 91 Resp: 1024228

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.4





#79
2-Chlorotoluene
Concen: 49.097 ug/l
RT: 12.752 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

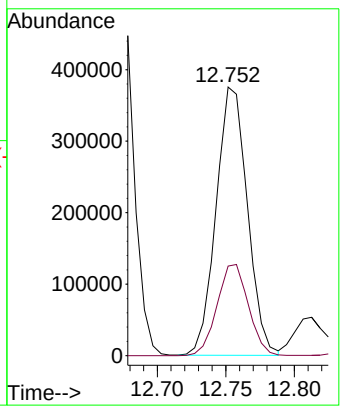
Tgt Ion: 91 Resp: 59679

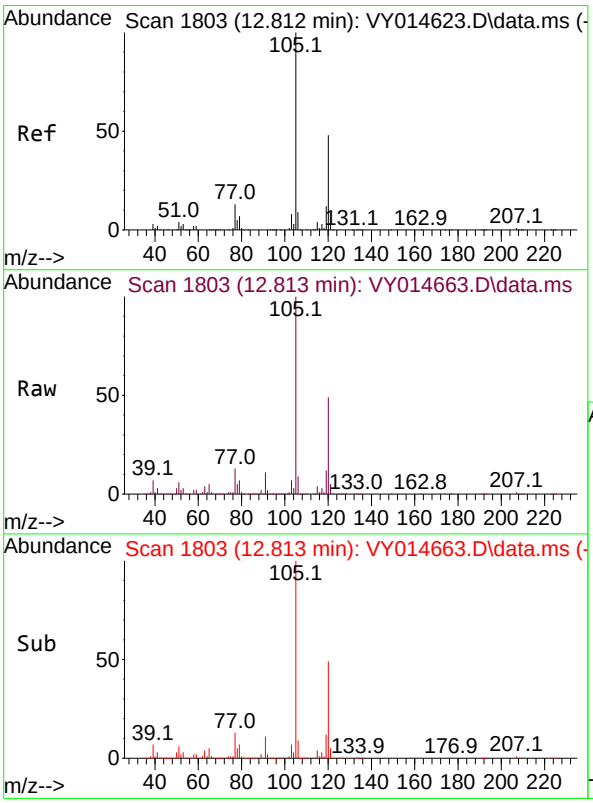
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	51.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

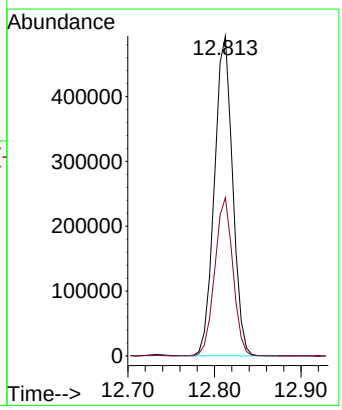


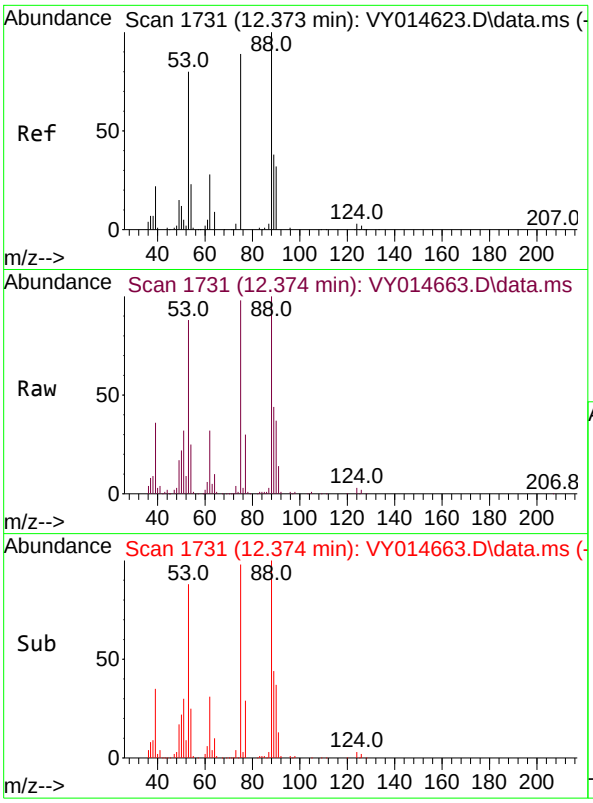


#80
1,3,5-Trimethylbenzene
Concen: 49.153 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:105 Resp: 718924

Ion	Ratio	Lower	Upper
105	100		
120	49.4	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 55.674 ug/l
RT: 12.374 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

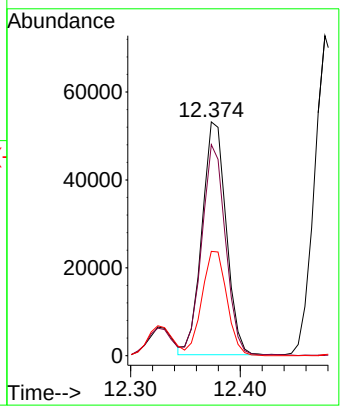
Tgt Ion: 75 Resp: 8122

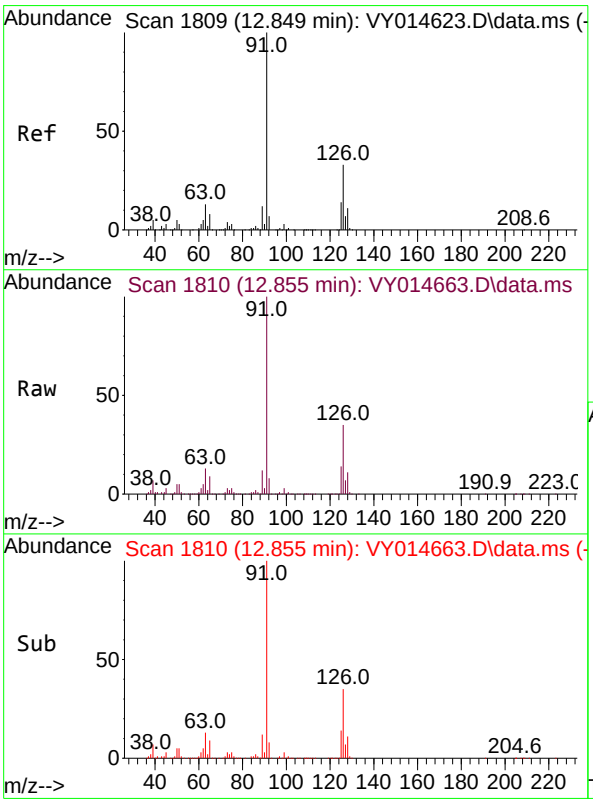
Ion	Ratio	Lower	Upper
75	100		
53	87.5	77.8	116.8
89	46.1	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

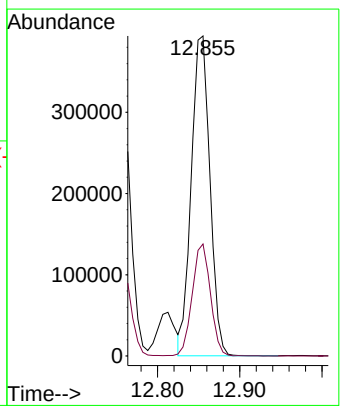


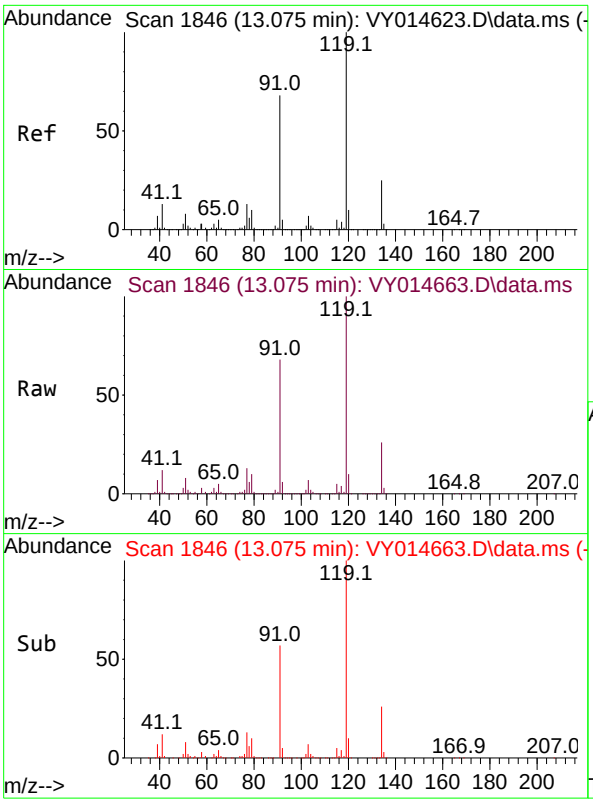


#82
4-Chlorotoluene
Concen: 49.486 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 91 Resp: 619517

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.2	51.6

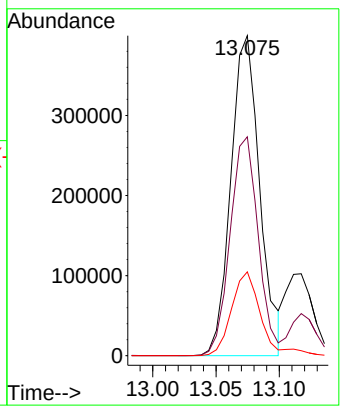




#83
tert-Butylbenzene
Concen: 49.016 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:119 Resp: 63595

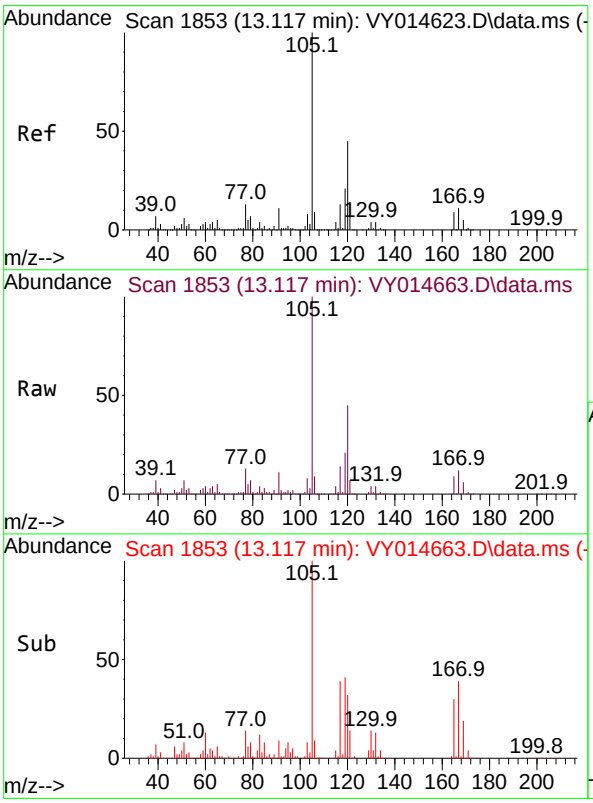
Ion	Ratio	Lower	Upper
119	100		
91	66.5	32.9	98.6
134	26.6	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

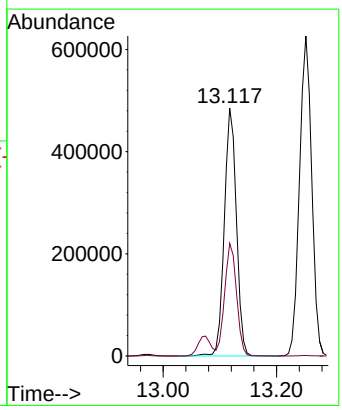
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

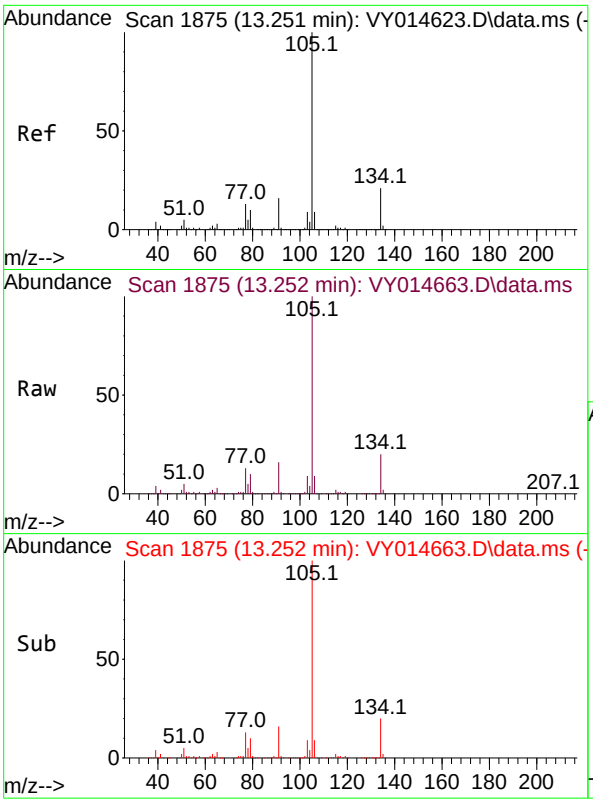


#84
1,2,4-Trimethylbenzene
Concen: 49.934 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:105 Resp: 716760

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.2	66.6

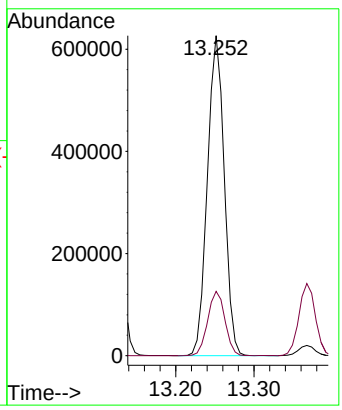




#85
sec-Butylbenzene
Concen: 49.120 ug/l
RT: 13.252 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:105 Resp: 93489

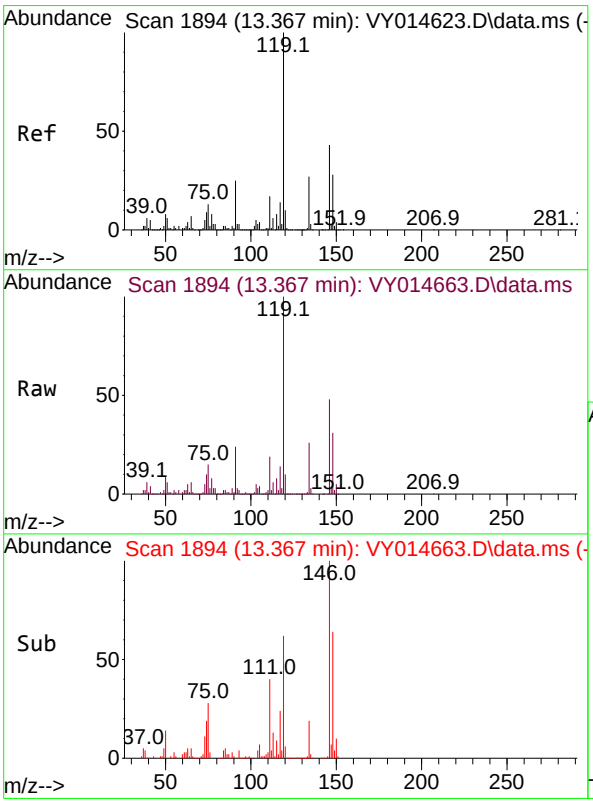
Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

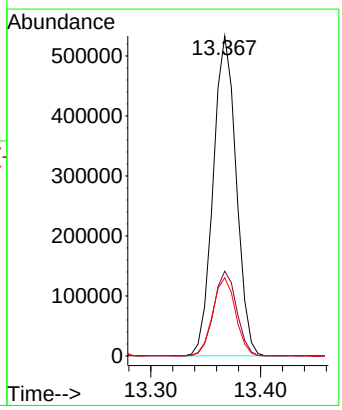
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

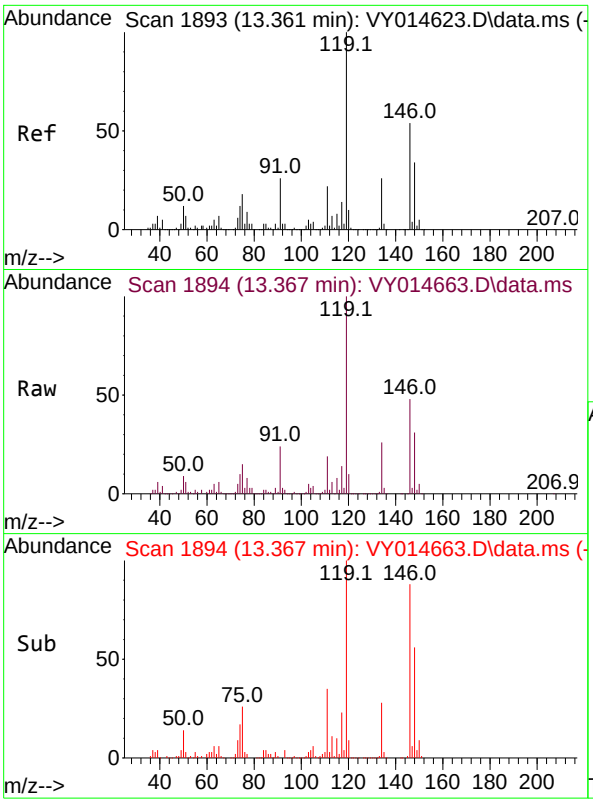


#86
p-Isopropyltoluene
Concen: 50.112 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:119 Resp: 778729

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.3	39.8
91	24.3	12.4	37.4

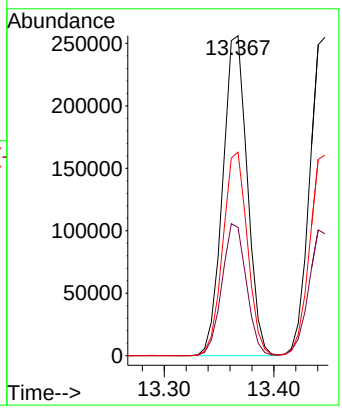




#87
1,3-Dichlorobenzene
Concen: 51.214 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:146 Resp: 39847

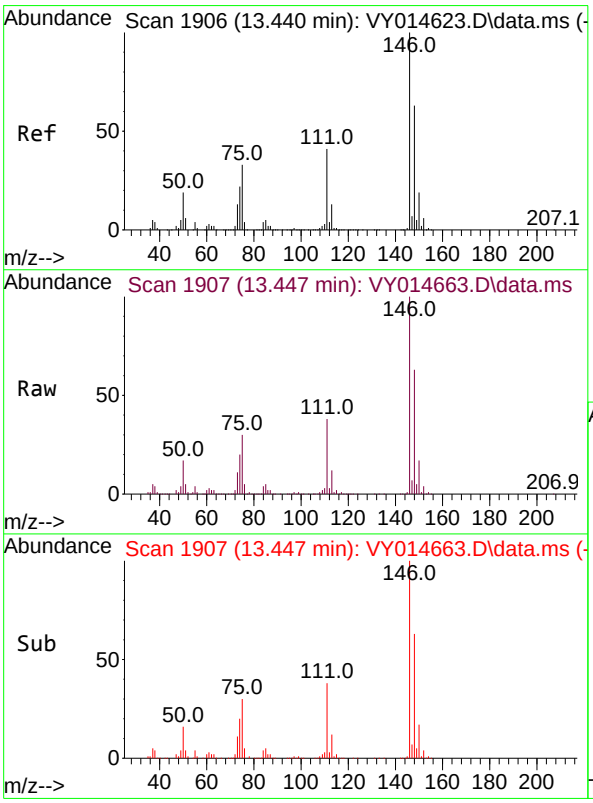
Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.4	58.2
148	63.6	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

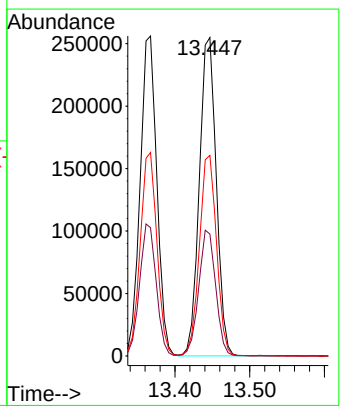
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

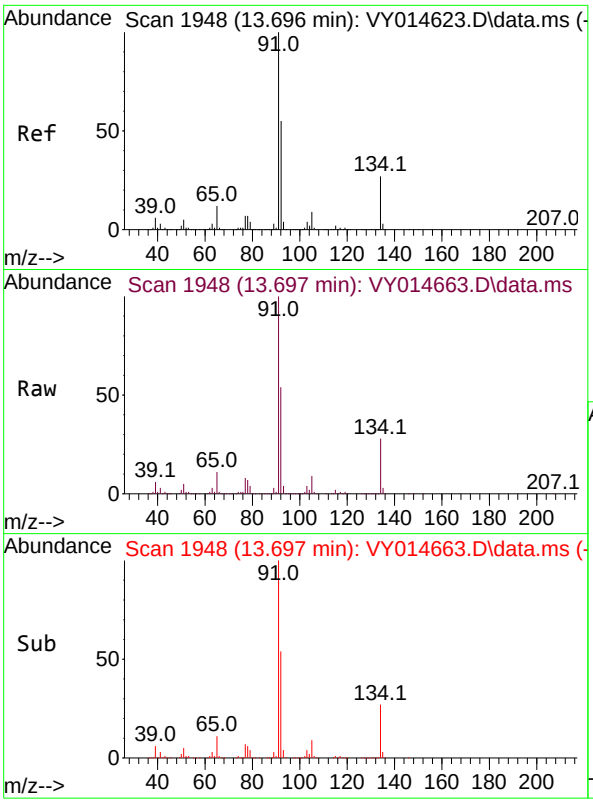


#88
1,4-Dichlorobenzene
Concen: 51.453 ug/l
RT: 13.447 min Scan# 1907
Delta R.T. 0.007 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:146 Resp: 401170

Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.9	56.7
148	63.8	32.1	96.5

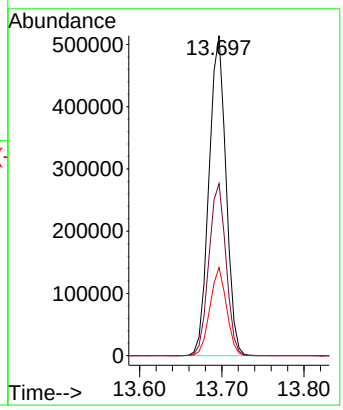




#89
n-Butylbenzene
Concen: 48.849 ug/l
RT: 13.697 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 91 Resp: 73852

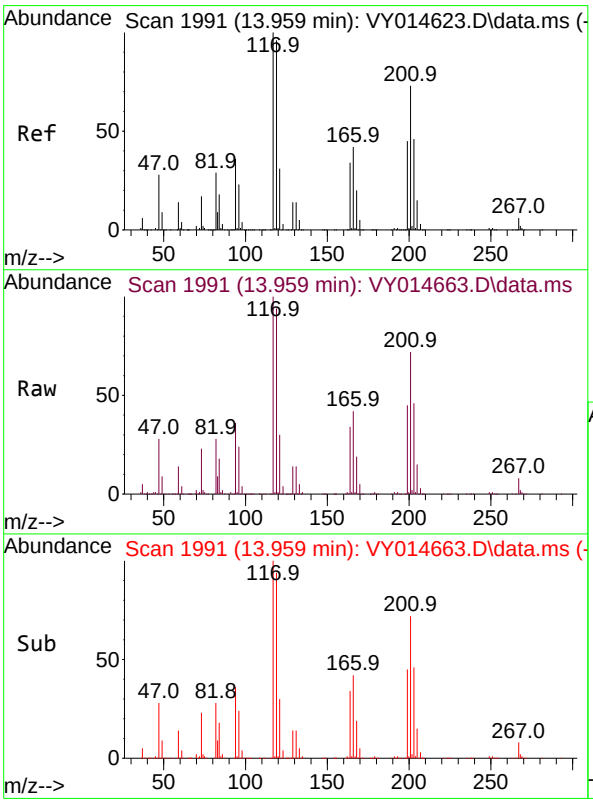
Ion	Ratio	Lower	Upper
91	100		
92	54.2	25.4	76.0
134	26.8	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

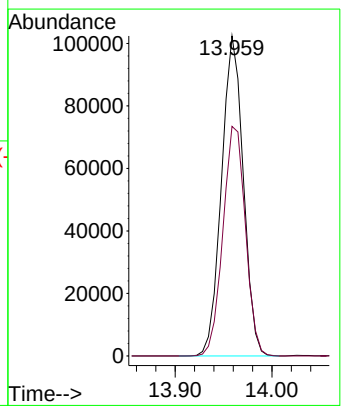
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

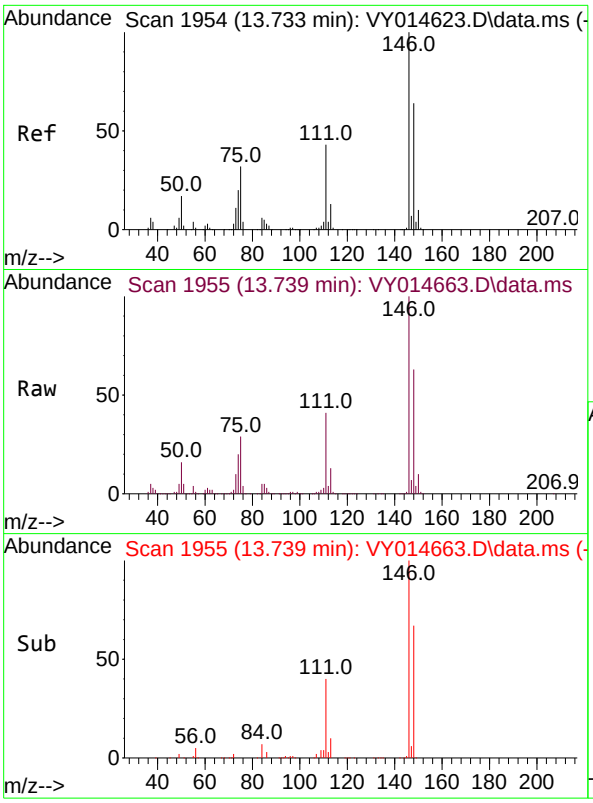


#90
Hexachloroethane
Concen: 50.117 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:117 Resp: 159966

Ion	Ratio	Lower	Upper
117	100		
201	74.2	41.6	124.8

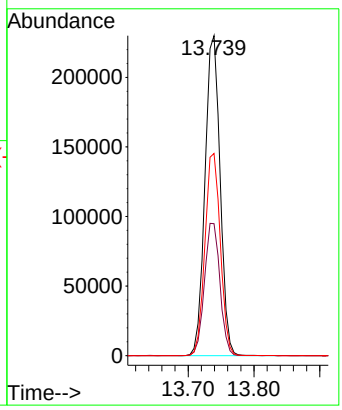




#91
1,2-Dichlorobenzene
Concen: 51.704 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:146 Resp: 36857

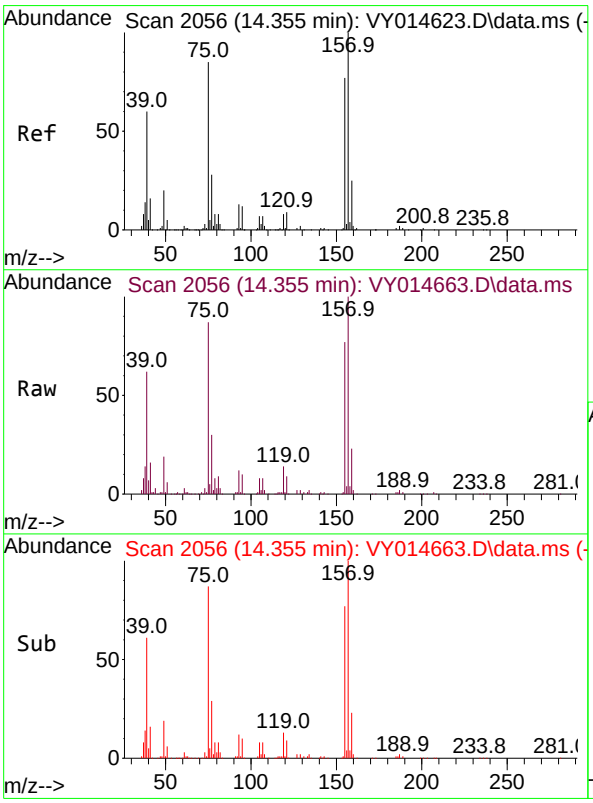
Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.7	59.0
148	64.2	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

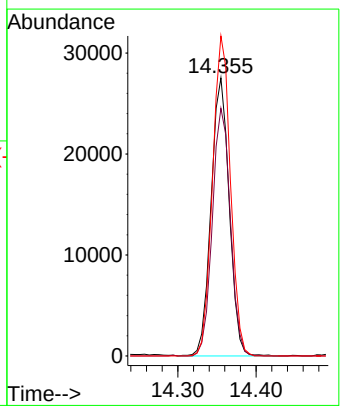
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

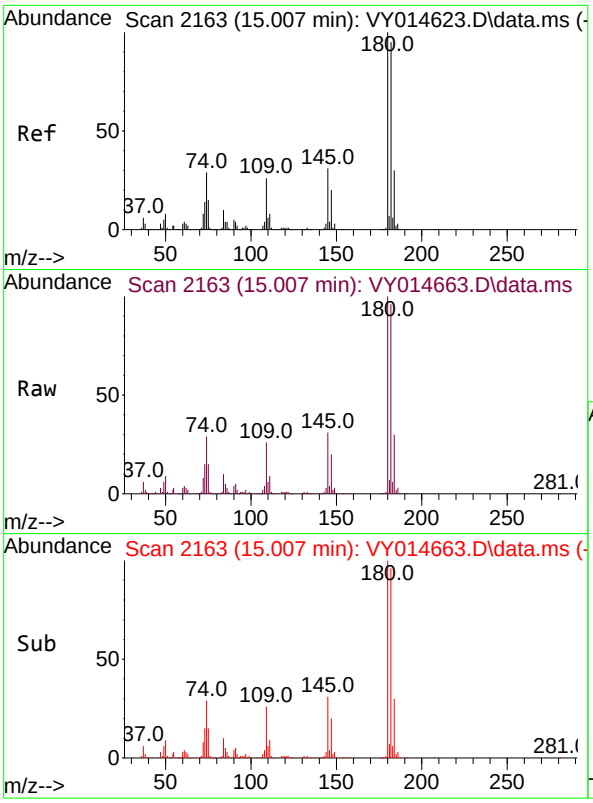


#92
1,2-Dibromo-3-Chloropropane
Concen: 57.935 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion: 75 Resp: 44250

Ion	Ratio	Lower	Upper
75	100		
155	88.5	41.5	124.6
157	113.8	51.8	155.5

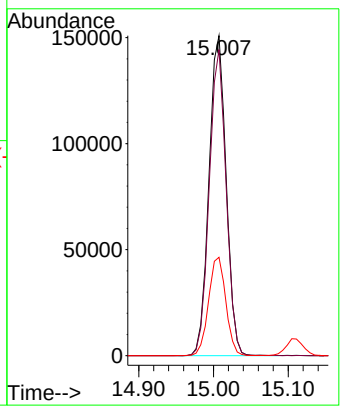




#93
1,2,4-Trichlorobenzene
Concen: 53.130 ug/l
RT: 15.007 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:180 Resp: 24042

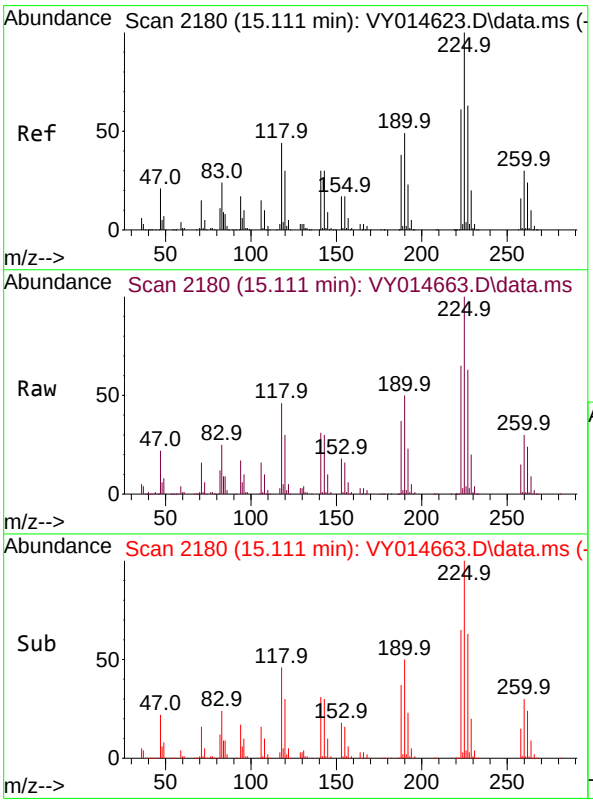
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.0	141.2
145	31.0	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

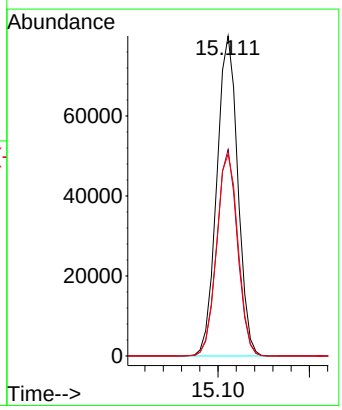
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

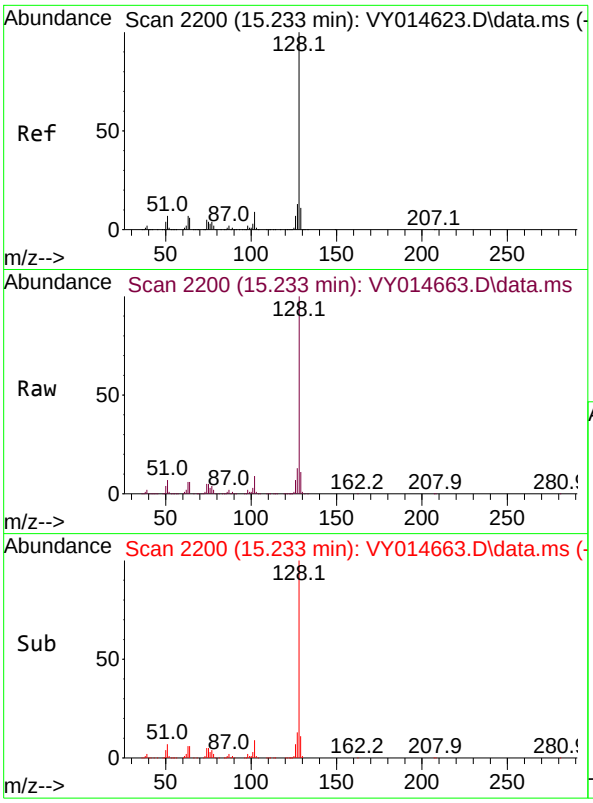


#94
Hexachlorobutadiene
Concen: 51.389 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:225 Resp: 127791

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.9
227	64.1	33.0	98.9

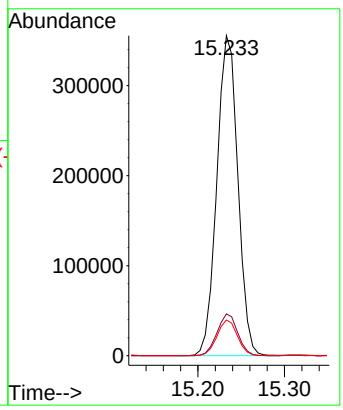




#95
Naphthalene
Concen: 56.822 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:128 Resp: 59905

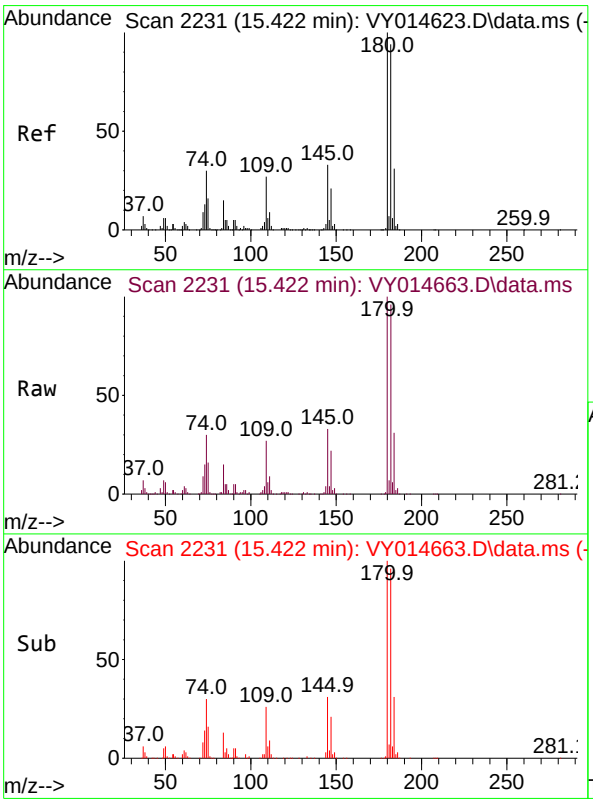
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

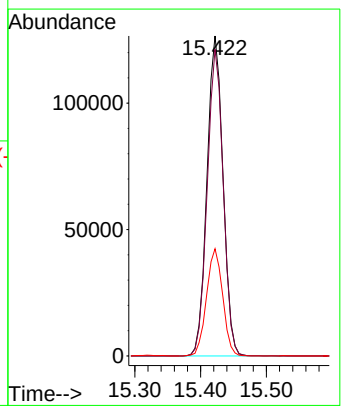
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#96
1,2,3-Trichlorobenzene
Concen: 53.581 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014663.D
Acq: 17 Jul 2023 11:00

Tgt Ion:180 Resp: 215488

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.8
145	33.6	15.4	46.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	0.407	0.367	9.8	84	0.00
3	P	Chloromethane	0.458	0.462	-0.9	92	0.00
4	C	Vinyl Chloride	0.512	0.522	-2.0#	90	0.00
5	T	Bromomethane	0.338	0.368	-8.9	98	0.00
6	T	Chloroethane	0.320	0.337	-5.3	93	0.00
7	T	Trichlorofluoromethane	0.860	0.844	1.9	86	0.00
8	T	Diethyl Ether	0.320	0.335	-4.7	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.527	0.517	1.9	85	0.00
10	T	Methyl Iodide	0.493	0.588	-19.3	97	0.00
11	T	Tert butyl alcohol	0.125	0.134	-7.2	108	0.00
12	CM	1,1-Dichloroethene	0.492	0.483	1.8#	85	0.00
13	T	Acrolein	0.060	0.054	10.0	88	0.00
14	T	Allyl chloride	0.874	0.860	1.6	87	0.00
15	T	Acrylonitrile	0.176	0.212	-20.5	106	0.00
16	T	Acetone	0.181	0.212	-17.1	97	0.00
17	T	Carbon Disulfide	1.410	1.307	7.3	84	0.00
18	T	Methyl Acetate	0.693	0.848	-22.4	108	0.00
19	T	Methyl tert-butyl Ether	1.599	1.746	-9.2	95	0.00
20	T	Methylene Chloride	0.656	0.618	5.8	91	0.00
21	T	trans-1,2-Dichloroethene	0.559	0.552	1.3	87	0.00
22	T	Diisopropyl ether	1.777	1.823	-2.6	89	0.00
23	T	Vinyl Acetate	1.064	1.149	-8.0	94	0.00
24	P	1,1-Dichloroethane	1.017	1.034	-1.7	88	0.00
25	T	2-Butanone	0.264	0.319	-20.8	106	0.00
26	T	2,2-Dichloropropane	0.969	0.961	0.8	87	0.00
27	T	cis-1,2-Dichloroethene	0.650	0.674	-3.7	90	0.00
28	T	Bromochloromethane	0.438	0.449	-2.5	96	0.00
29	T	Tetrahydrofuran	0.163	0.198	-21.5	109	0.00
30	C	Chloroform	1.049	1.079	-2.9#	90	0.00
31	T	Cyclohexane	0.946	0.840	11.2	82	0.00
32	T	1,1,1-Trichloroethane	0.944	0.945	-0.1	88	0.00
33	S	1,2-Dichloroethane-d4	0.570	0.569	0.2	91	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
35	S	Dibromofluoromethane	0.318	0.318	0.0	89	0.00
36	T	1,1-Dichloropropene	0.476	0.469	1.5	86	0.00
37	T	Ethyl Acetate	0.328	0.385	-17.4	107	0.00
38	T	Carbon Tetrachloride	0.503	0.510	-1.4	88	0.00
39	T	Methylcyclohexane	0.620	0.585	5.6	82	0.00
40	TM	Benzene	1.354	1.373	-1.4	88	0.00
41	T	Methacrylonitrile	0.169	0.203	-20.1	109	0.00
42	TM	1,2-Dichloroethane	0.429	0.457	-6.5	92	0.00
43	T	Isopropyl Acetate	0.624	0.707	-13.3	100	0.00
44	TM	Trichloroethene	0.379	0.387	-2.1	89	0.00
45	C	1,2-Dichloropropane	0.353	0.361	-2.3#	89	0.00
46	T	Dibromomethane	0.214	0.229	-7.0	93	0.00
47	T	Bromodichloromethane	0.505	0.529	-4.8	91	0.00
48	T	Methyl methacrylate	0.281	0.320	-13.9	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.003	0.004	-33.3#	108	0.00
50	S	Toluene-d8	1.173	1.123	4.3	86	0.00
51	T	4-Methyl-2-Pentanone	0.328	0.392	-19.5	105	0.00
52	CM	Toluene	0.866	0.876	-1.2#	88	0.00
53	T	t-1,3-Dichloropropene	0.553	0.581	-5.1	91	0.00
54	T	cis-1,3-Dichloropropene	0.601	0.624	-3.8	90	0.00
55	T	1,1,2-Trichloroethane	0.299	0.326	-9.0	95	0.00
56	T	Ethyl methacrylate	0.456	0.510	-11.8	96	0.00
57	T	1,3-Dichloropropane	0.515	0.554	-7.6	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.213	0.234	-9.9	98	0.00
59	T	2-Hexanone	0.239	0.288	-20.5	105	0.00
60	T	Dibromochloromethane	0.366	0.399	-9.0	94	0.00
61	T	1,2-Dibromoethane	0.298	0.326	-9.4	95	0.00
62	S	4-Bromofluorobenzene	0.450	0.434	3.6	88	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64	T	Tetrachloroethene	0.402	0.412	-2.5	91	0.00
65	PM	Chlorobenzene	1.065	1.087	-2.1	90	0.00
66	T	1,1,1,2-Tetrachloroethane	0.402	0.425	-5.7	92	0.00
67	C	Ethyl Benzene	1.924	1.925	-0.1#	87	0.00
68	T	m/p-Xylenes	0.734	0.736	-0.3	88	0.00
69	T	o-Xylene	0.715	0.726	-1.5	89	0.00
70	T	Styrene	1.206	1.241	-2.9	89	0.00
71	P	Bromoform	0.272	0.313	-15.1	99	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	3.915	3.814	2.6	88	0.00
74	T	N-amyl acetate	1.311	1.415	-7.9	96	0.00
75	P	1,1,2,2-Tetrachloroethane	0.893	0.971	-8.7	99	0.00
76	T	1,2,3-Trichloropropane	0.631	0.708	-12.2	102	0.00
77	T	Bromobenzene	0.894	0.934	-4.5	93	0.00
78	T	n-propylbenzene	4.718	4.579	2.9	86	0.00
79	T	2-Chlorotoluene	2.717	2.668	1.8	87	0.00
80	T	1,3,5-Trimethylbenzene	3.270	3.214	1.7	87	0.00
81	T	trans-1,4-Dichloro-2-butene	0.326	0.363	-11.3	98	0.00
82	T	4-Chlorotoluene	2.799	2.770	1.0	88	0.00
83	T	tert-Butylbenzene	2.900	2.843	2.0	87	0.00
84	T	1,2,4-Trimethylbenzene	3.209	3.205	0.1	89	0.00
85	T	sec-Butylbenzene	4.255	4.180	1.8	87	0.00
86	T	p-Isopropyltoluene	3.474	3.482	-0.2	88	0.00
87	T	1,3-Dichlorobenzene	1.739	1.782	-2.5	91	0.00
88	T	1,4-Dichlorobenzene	1.743	1.794	-2.9	91	0.00
89	T	n-Butylbenzene	3.380	3.302	2.3	86	0.00
90	T	Hexachloroethane	0.714	0.715	-0.1	89	0.00
91	T	1,2-Dichlorobenzene	1.594	1.648	-3.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.171	0.198	-15.8	105	0.00
93	T	1,2,4-Trichlorobenzene	1.012	1.075	-6.2	91	0.00
94	T	Hexachlorobutadiene	0.556	0.571	-2.7	89	0.00
95	T	Naphthalene	2.357	2.678	-13.6	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.899	0.963	-7.1	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	89	0.00
2	T	Dichlorodifluoromethane	50.000	45.052	9.9	84	0.00
3	P	Chloromethane	50.000	50.429	-0.9	92	0.00
4	C	Vinyl Chloride	50.000	51.039	-2.1#	90	0.00
5	T	Bromomethane	50.000	54.404	-8.8	98	0.00
6	T	Chloroethane	50.000	52.773	-5.5	93	0.00
7	T	Trichlorofluoromethane	50.000	49.106	1.8	86	0.00
8	T	Diethyl Ether	50.000	52.331	-4.7	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.065	1.9	85	0.00
10	T	Methyl Iodide	50.000	52.518	-5.0	97	0.00
11	T	Tert butyl alcohol	250.000	290.485	-16.2	108	0.00
12	CM	1,1-Dichloroethene	50.000	49.029	1.9#	85	0.00
13	T	Acrolein	250.000	225.501	9.8	88	0.00
14	T	Allyl chloride	50.000	49.195	1.6	87	0.00
15	T	Acrylonitrile	250.000	300.999	-20.4	106	0.00
16	T	Acetone	250.000	293.080	-17.2	97	0.00
17	T	Carbon Disulfide	50.000	46.371	7.3	84	0.00
18	T	Methyl Acetate	50.000	61.180	-22.4	108	0.00
19	T	Methyl tert-butyl Ether	50.000	54.572	-9.1	95	0.00
20	T	Methylene Chloride	50.000	52.933	-5.9	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.357	1.3	87	0.00
22	T	Diisopropyl ether	50.000	51.271	-2.5	89	0.00
23	T	Vinyl Acetate	250.000	270.135	-8.1	94	0.00
24	P	1,1-Dichloroethane	50.000	50.820	-1.6	88	0.00
25	T	2-Butanone	250.000	302.286	-20.9	106	0.00
26	T	2,2-Dichloropropane	50.000	49.588	0.8	87	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.789	-3.6	90	0.00
28	T	Bromochloromethane	50.000	51.284	-2.6	96	0.00
29	T	Tetrahydrofuran	250.000	303.847	-21.5	109	0.00
30	C	Chloroform	50.000	51.429	-2.9#	90	0.00
31	T	Cyclohexane	50.000	44.399	11.2	82	0.00
32	T	1,1,1-Trichloroethane	50.000	50.085	-0.2	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.950	0.1	91	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	90	0.00
35	S	Dibromofluoromethane	50.000	49.991	0.0	89	0.00
36	T	1,1-Dichloropropene	50.000	49.224	1.6	86	0.00
37	T	Ethyl Acetate	50.000	58.767	-17.5	107	0.00
38	T	Carbon Tetrachloride	50.000	50.698	-1.4	88	0.00
39	T	Methylcyclohexane	50.000	47.195	5.6	82	0.00
40	TM	Benzene	50.000	50.710	-1.4	88	0.00
41	T	Methacrylonitrile	50.000	60.329	-20.7	109	0.00
42	TM	1,2-Dichloroethane	50.000	53.297	-6.6	92	0.00
43	T	Isopropyl Acetate	50.000	56.652	-13.3	100	0.00
44	TM	Trichloroethene	50.000	51.027	-2.1	89	0.00
45	C	1,2-Dichloropropane	50.000	51.032	-2.1#	89	0.00
46	T	Dibromomethane	50.000	53.427	-6.9	93	0.00
47	T	Bromodichloromethane	50.000	52.335	-4.7	91	0.00
48	T	Methyl methacrylate	50.000	56.948	-13.9	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1244.023	-24.4	108	0.00
50	S	Toluene-d8	50.000	47.848	4.3	86	0.00
51	T	4-Methyl-2-Pentanone	250.000	299.151	-19.7	105	0.00
52	CM	Toluene	50.000	50.549	-1.1#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	52.530	-5.1	91	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.871	-3.7	90	0.00
55	T	1,1,2-Trichloroethane	50.000	54.570	-9.1	95	0.00
56	T	Ethyl methacrylate	50.000	55.941	-11.9	96	0.00
57	T	1,3-Dichloropropane	50.000	53.754	-7.5	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.760	-10.3	98	0.00
59	T	2-Hexanone	250.000	301.691	-20.7	105	0.00
60	T	Dibromochloromethane	50.000	54.415	-8.8	94	0.00
61	T	1,2-Dibromoethane	50.000	54.687	-9.4	95	0.00
62	S	4-Bromofluorobenzene	50.000	48.195	3.6	88	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64	T	Tetrachloroethene	50.000	51.214	-2.4	91	0.00
65	PM	Chlorobenzene	50.000	51.011	-2.0	90	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.947	-5.9	92	0.00
67	C	Ethyl Benzene	50.000	50.028	-0.1#	87	0.00
68	T	m/p-Xylenes	100.000	100.258	-0.3	88	0.00
69	T	o-Xylene	50.000	50.752	-1.5	89	0.00
70	T	Styrene	50.000	51.457	-2.9	89	0.00
71	P	Bromoform	50.000	57.408	-14.8	99	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	48.716	2.6	88	0.00
74	T	N-amyl acetate	50.000	53.950	-7.9	96	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.391	-8.8	99	0.00
76	T	1,2,3-Trichloropropane	50.000	56.074	-12.1	102	0.00
77	T	Bromobenzene	50.000	52.236	-4.5	93	0.00
78	T	n-propylbenzene	50.000	48.532	2.9	86	0.00
79	T	2-Chlorotoluene	50.000	49.097	1.8	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.153	1.7	87	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.674	-11.3	98	0.00
82	T	4-Chlorotoluene	50.000	49.486	1.0	88	0.00
83	T	tert-Butylbenzene	50.000	49.016	2.0	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.934	0.1	89	0.00
85	T	sec-Butylbenzene	50.000	49.120	1.8	87	0.00
86	T	p-Isopropyltoluene	50.000	50.112	-0.2	88	0.00
87	T	1,3-Dichlorobenzene	50.000	51.214	-2.4	91	0.00
88	T	1,4-Dichlorobenzene	50.000	51.453	-2.9	91	0.00
89	T	n-Butylbenzene	50.000	48.849	2.3	86	0.00
90	T	Hexachloroethane	50.000	50.117	-0.2	89	0.00
91	T	1,2-Dichlorobenzene	50.000	51.704	-3.4	91	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	57.935	-15.9	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.130	-6.3	91	0.00
94	T	Hexachlorobutadiene	50.000	51.389	-2.8	89	0.00
95	T	Naphthalene	50.000	56.822	-13.6	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014663.D
Acq On : 17 Jul 2023 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Jul 18 06:06:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.581	-7.2	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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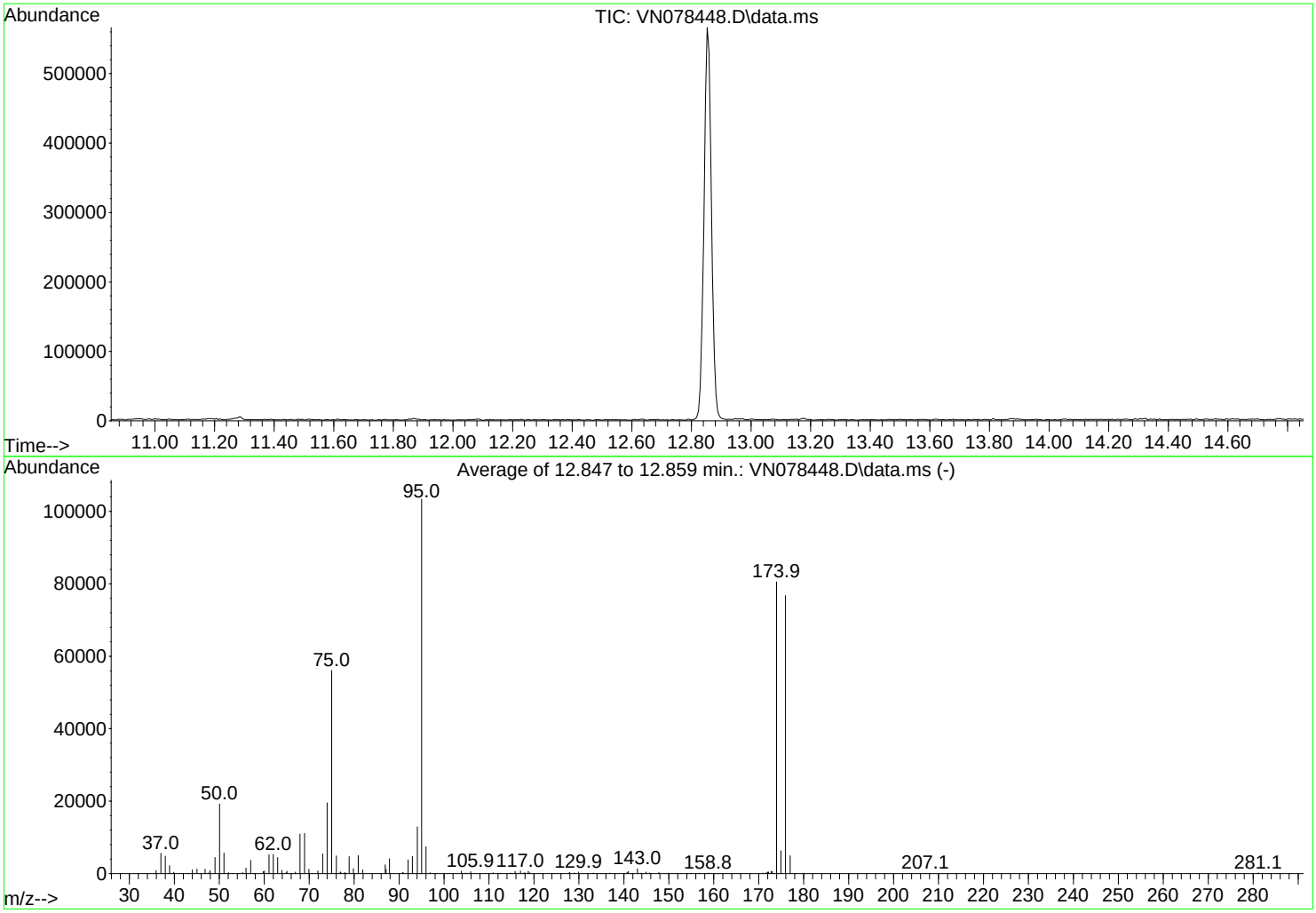
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071023\
Data File : VN078448.D
Acq On : 10 Jul 2023 11:48
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Title : SW846 8260
Last Update : Mon Jul 10 16:13:53 2023



AutoFind: Scans 1852, 1853, 1854; Background Corrected with Scan 1844

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	19208	PASS
75	95	30	60	54.2	56091	PASS
95	95	100	100	100.0	103427	PASS
96	95	5	9	7.2	7423	PASS
173	174	0.00	2	0.8	641	PASS
174	95	50	100	77.9	80544	PASS
175	174	5	9	7.8	6283	PASS
176	174	95	101	95.3	76741	PASS
177	176	5	9	6.5	4951	PASS

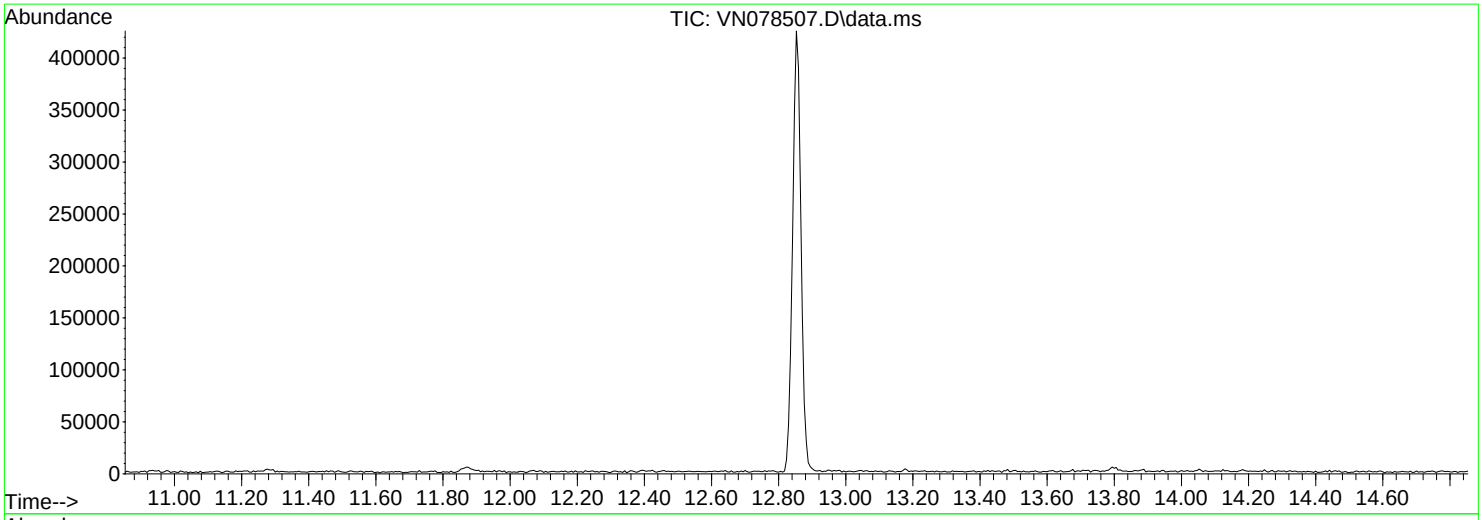
Sample Results: **VN078507.D**

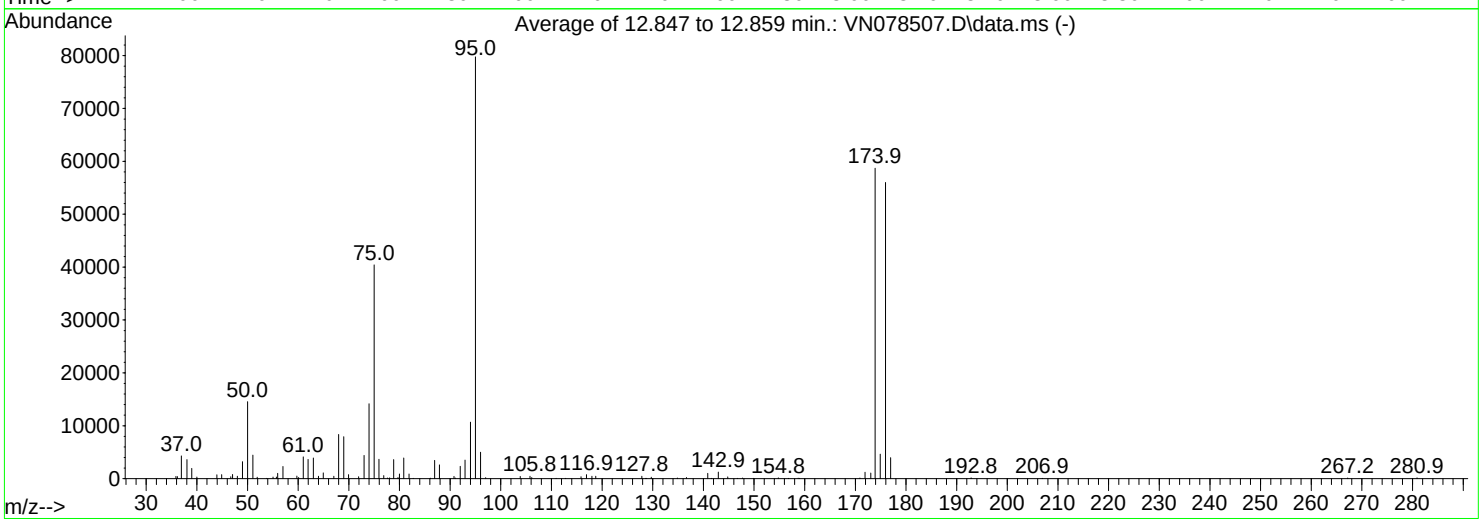
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078507.D
Acq On : 14 Jul 2023 08:35
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Title : SW846 8260
Last Update : Mon Jul 10 16:13:53 2023





AutoFind: Scans 1852, 1853, 1854; Background Corrected with Scan 1844

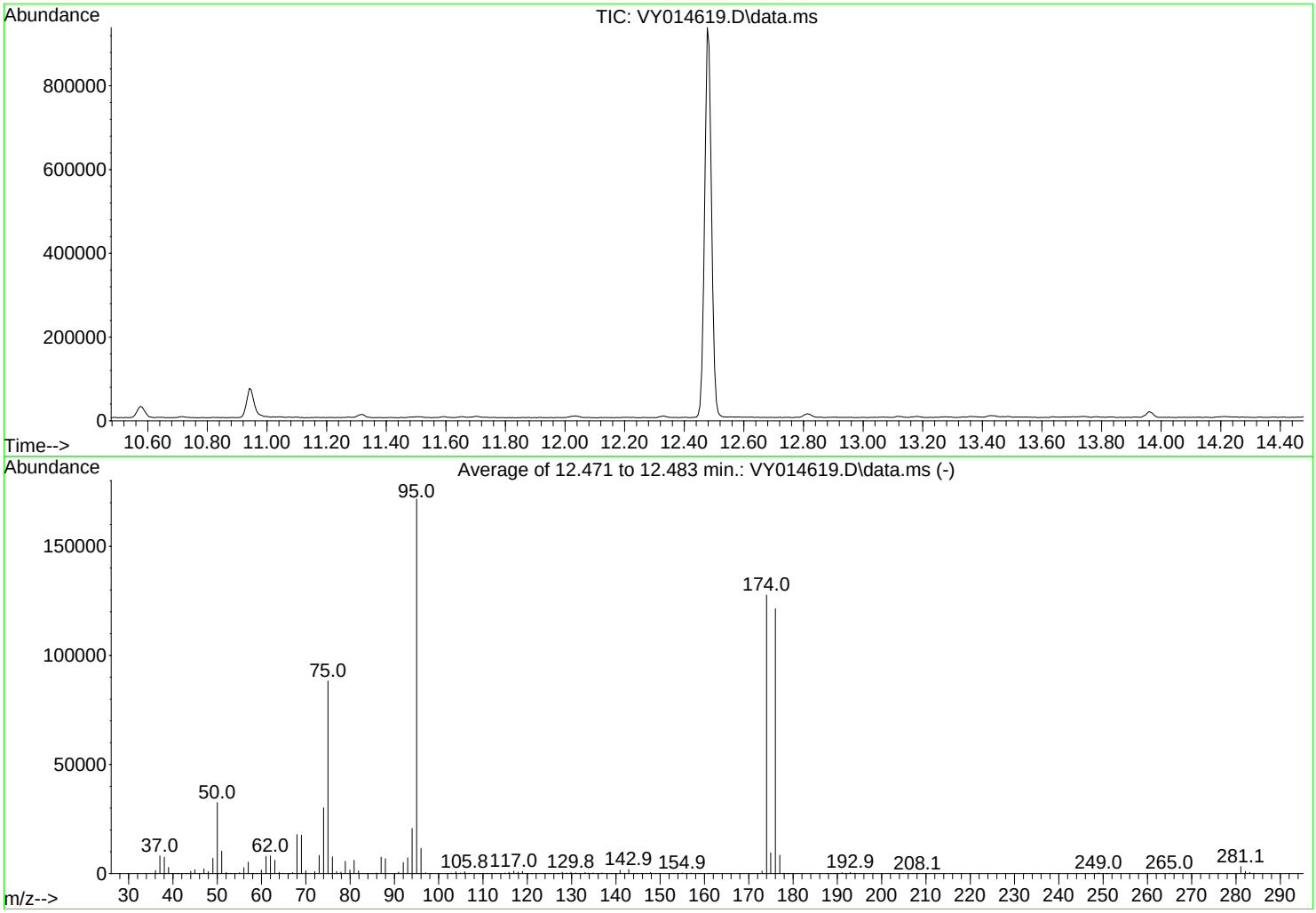
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	14555	PASS
75	95	30	60	50.7	40437	PASS
95	95	100	100	100.0	79763	PASS
96	95	5	9	6.2	4980	PASS
173	174	0.00	2	1.8	1057	PASS
174	95	50	100	73.6	58701	PASS
175	174	5	9	7.9	4631	PASS
176	174	95	101	95.4	55995	PASS
177	176	5	9	7.1	3959	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071323\
Data File : VY014619.D
Acq On : 13 Jul 2023 08:36
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260
Last Update : Fri Jul 14 02:09:50 2023



AutoFind: Scans 1747, 1748, 1749; Background Corrected with Scan 1738

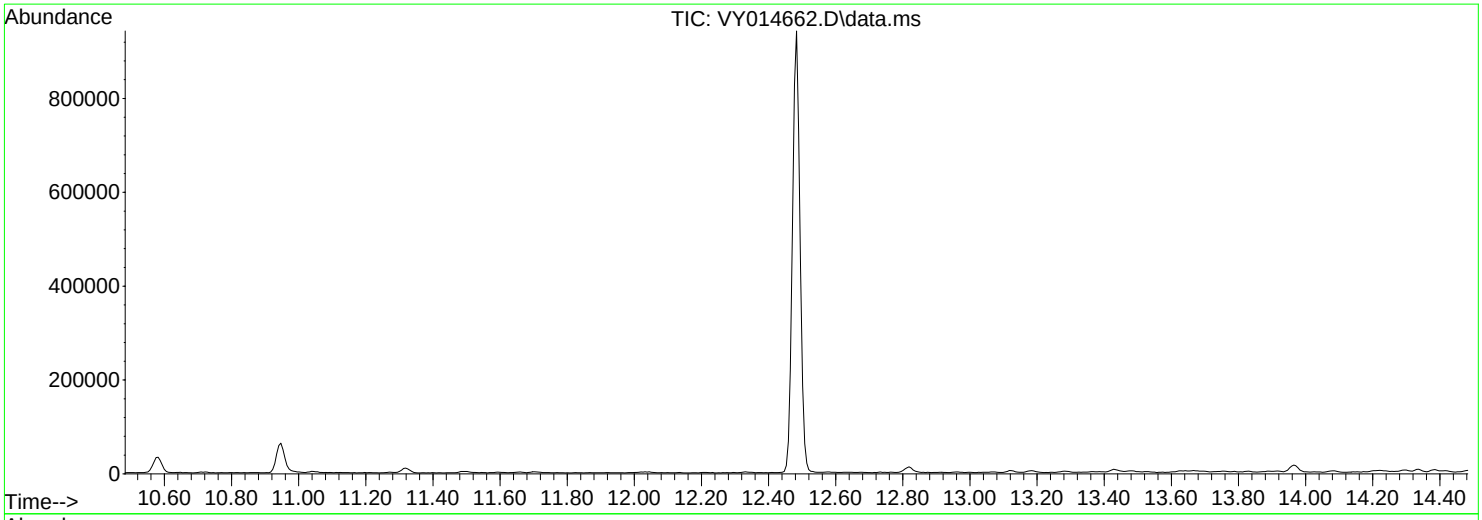
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	32571	PASS
75	95	30	60	51.4	88243	PASS
95	95	100	100	100.0	171691	PASS
96	95	5	9	6.8	11611	PASS
173	174	0.00	2	0.9	1160	PASS
174	95	50	100	74.3	127627	PASS
175	174	5	9	7.4	9495	PASS
176	174	95	101	95.1	121429	PASS
177	176	5	9	7.0	8441	PASS

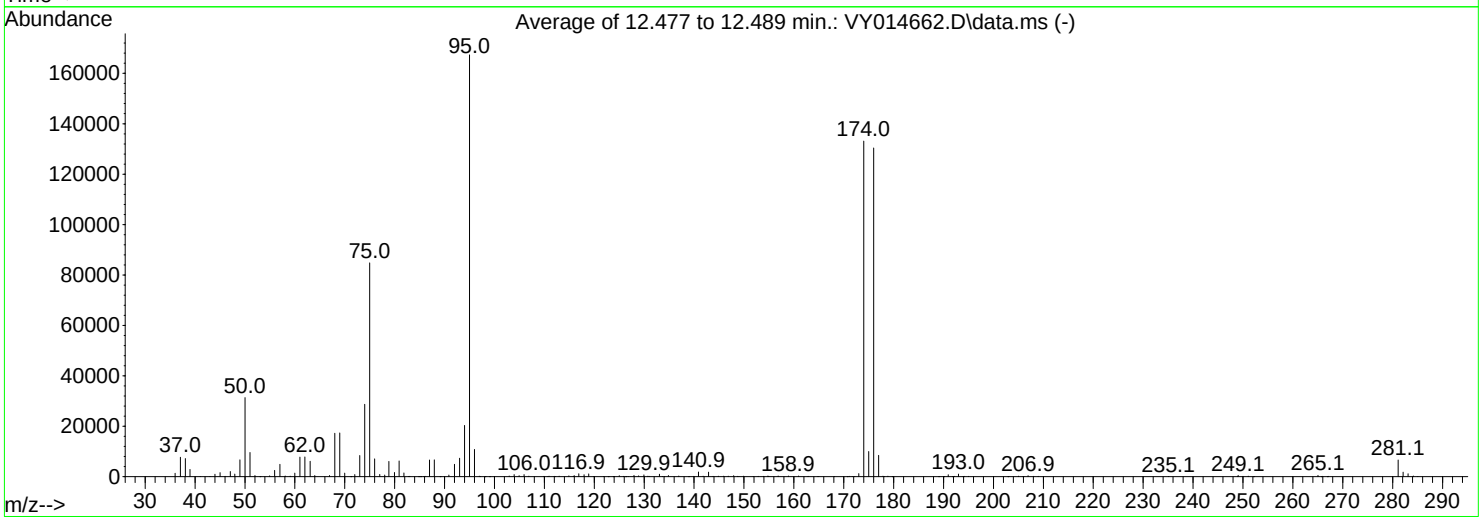
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014662.D
Acq On : 17 Jul 2023 09:07
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260
Last Update : Fri Jul 14 02:09:50 2023





AutoFind: Scans 1748, 1749, 1750; Background Corrected with Scan 1739

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	31360	PASS
75	95	30	60	50.7	84808	PASS
95	95	100	100	100.0	167339	PASS
96	95	5	9	6.5	10800	PASS
173	174	0.00	2	0.9	1201	PASS
174	95	50	100	79.6	133123	PASS
175	174	5	9	7.5	9946	PASS
176	174	95	101	98.0	130400	PASS
177	176	5	9	6.5	8417	PASS

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AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBL01	SDG No.:	O3631
Lab Sample ID:	VN0714WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078510.D	1		07/14/23 10:10	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBL01	SDG No.:	O3631
Lab Sample ID:	VN0714WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078510.D	1		07/14/23 10:10	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.46	3.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		74 - 125	98%	SPK: 50

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBL01	SDG No.:	O3631
Lab Sample ID:	VN0714WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078510.D	1		07/14/23 10:10	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	56.7		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	45.7		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	410000	8.235			
540-36-3	1,4-Difluorobenzene	731000	9.112			
3114-55-4	Chlorobenzene-d5	683000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	227000	13.8			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Quant Time: Jul 15 03:56:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	410410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	730500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	682507	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	227070	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	270660	49.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.380%			
35) Dibromofluoromethane	8.177	113	281037	56.674	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.340%			
50) Toluene-d8	10.576	98	856820	45.738	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.480%			
62) 4-Bromofluorobenzene	12.853	95	294449	51.029	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.060%			

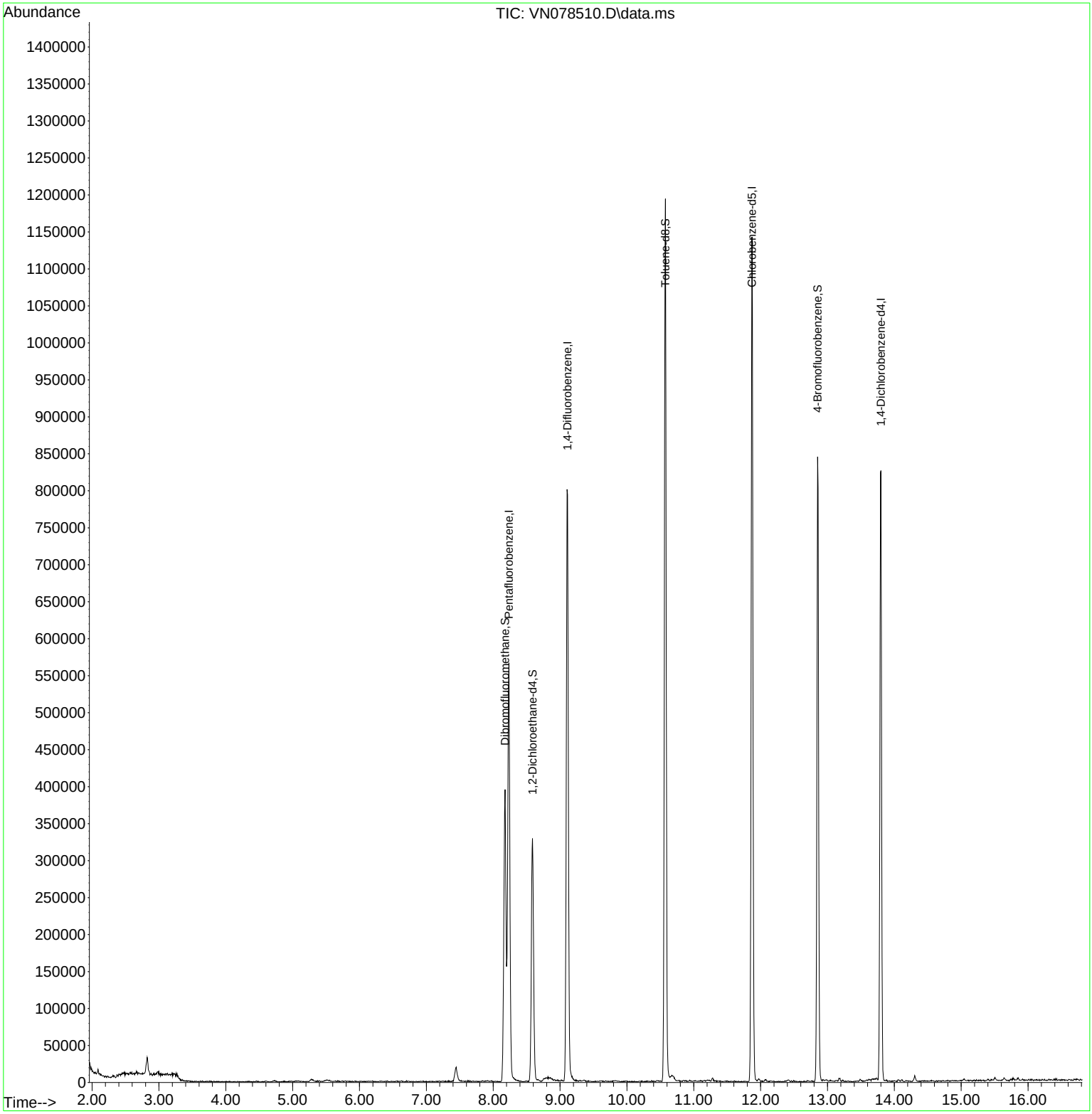
Target Compounds Qvalue

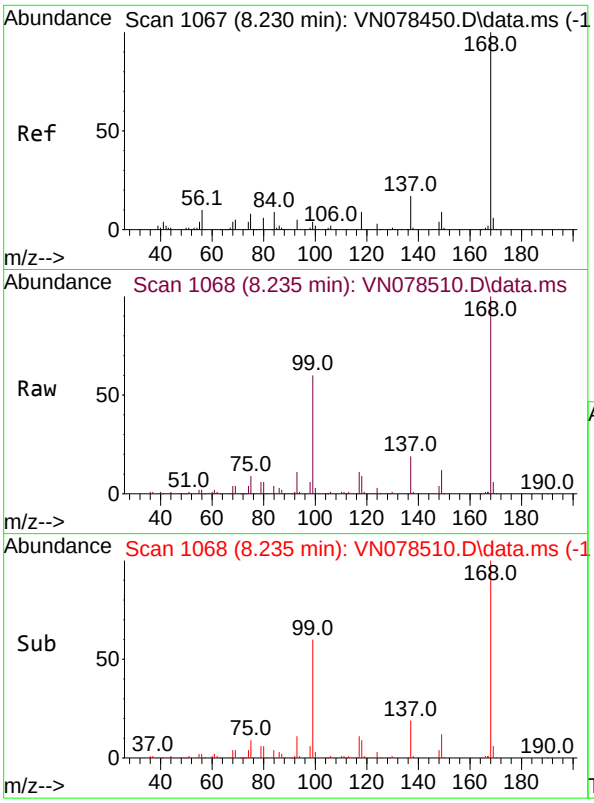
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Quant Time: Jul 15 03:56:46 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration



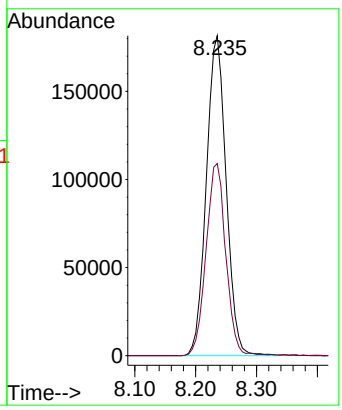


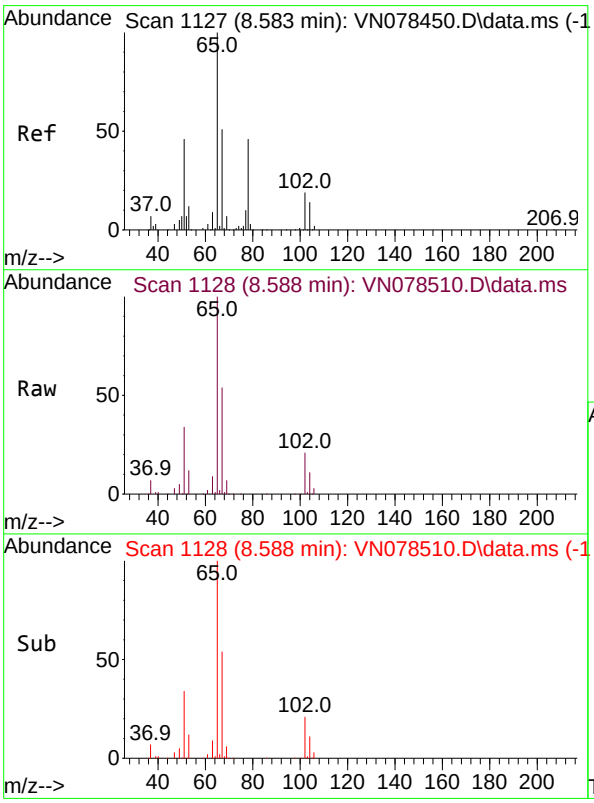
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Tgt Ion:168 Resp: 410410

Ion	Ratio	Lower	Upper
168	100		
99	60.1	53.0	79.6

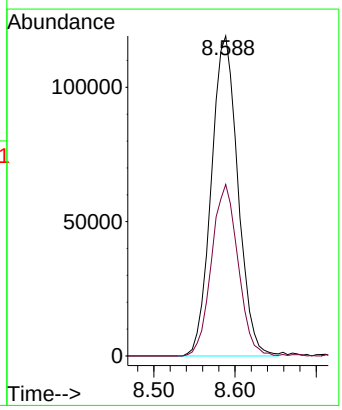


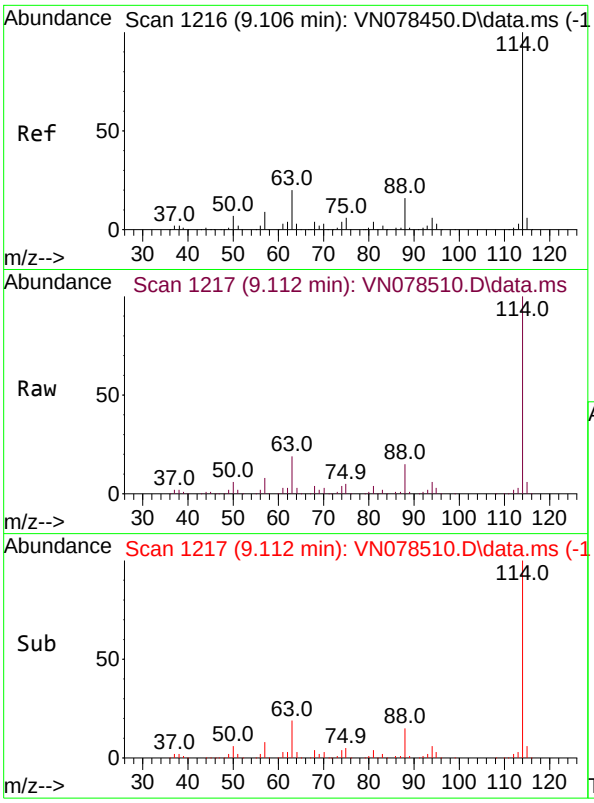


#33
1,2-Dichloroethane-d4
Concen: 49.193 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 65 Resp: 270660

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	106.6



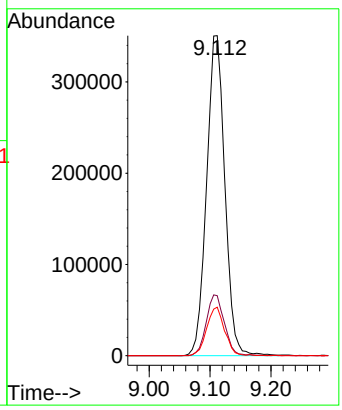


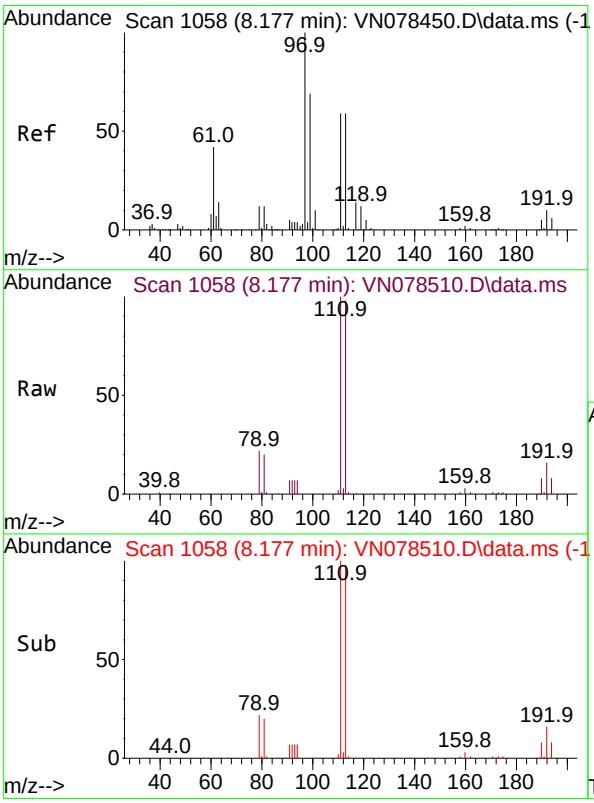
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Tgt Ion:114 Resp: 730500

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	36.4
88	15.2	0.0	30.6

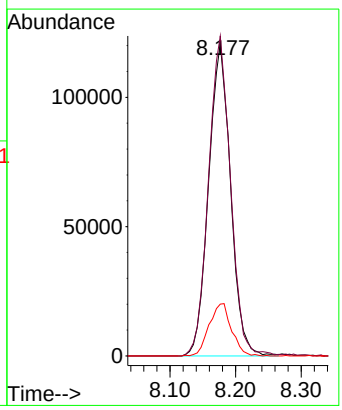


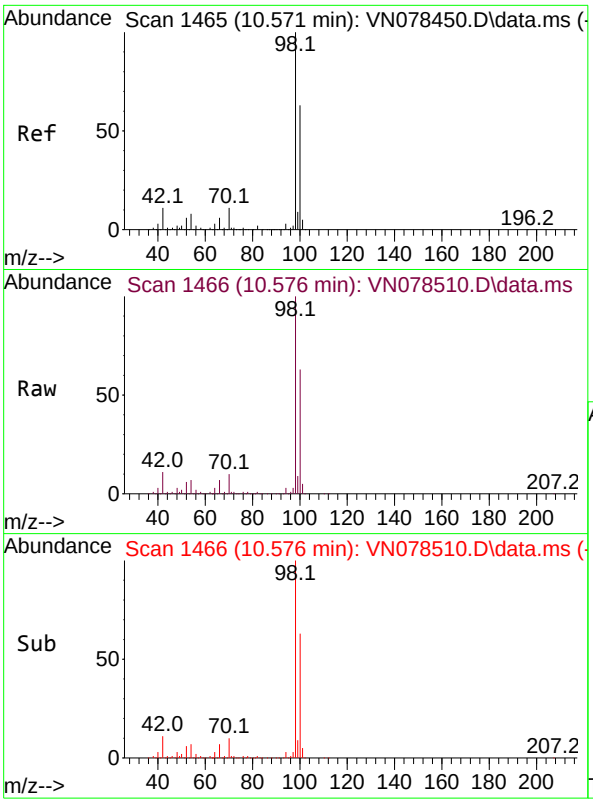


#35
Dibromofluoromethane
Concen: 56.674 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion:113 Resp: 281037

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.6	123.8
192	17.1	12.7	19.1



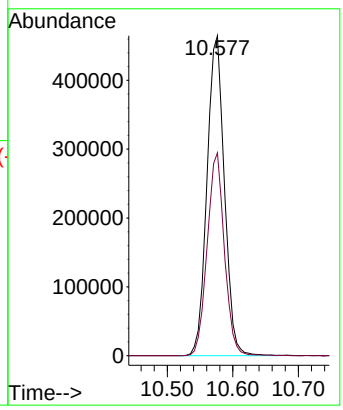


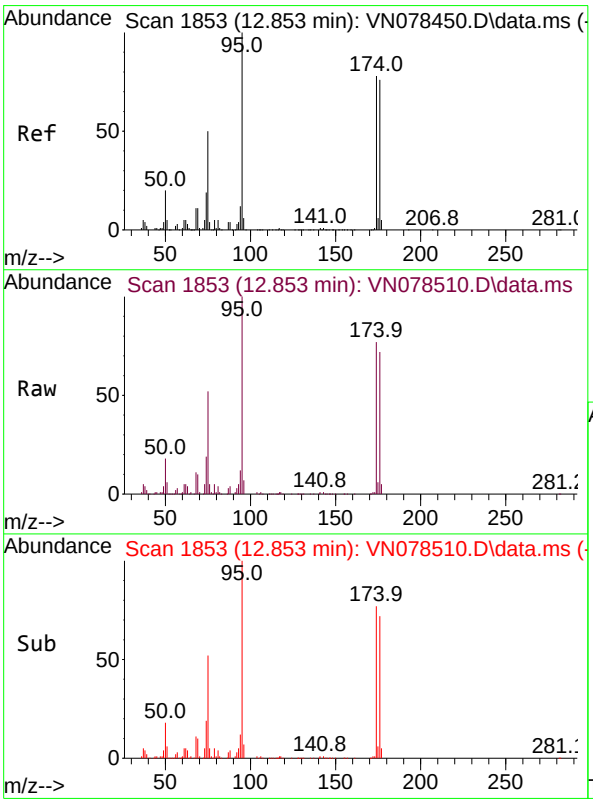
#50
Toluene-d8
Concen: 45.738 ug/l
RT: 10.576 min Scan# 14
Delta R.T. 0.005 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Tgt Ion: 98 Resp: 856820

Ion	Ratio	Lower	Upper
98	100		
100	62.7	52.0	78.0

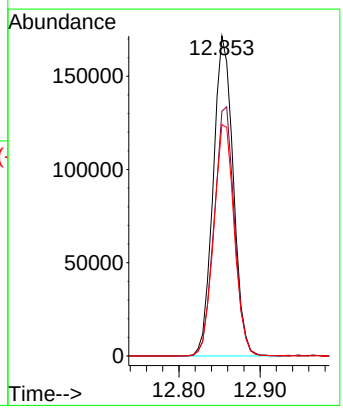


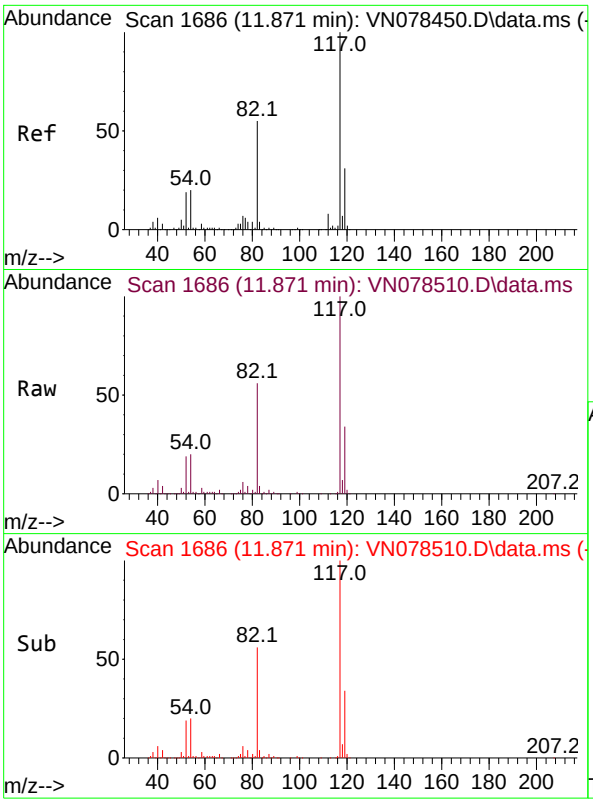


#62
4-Bromofluorobenzene
Concen: 51.029 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion: 95 Resp: 294449

Ion	Ratio	Lower	Upper
95	100		
174	78.5	0.0	143.8
176	74.3	0.0	135.8



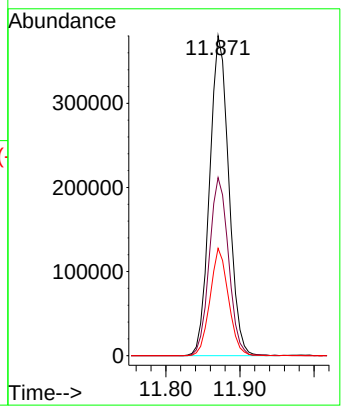


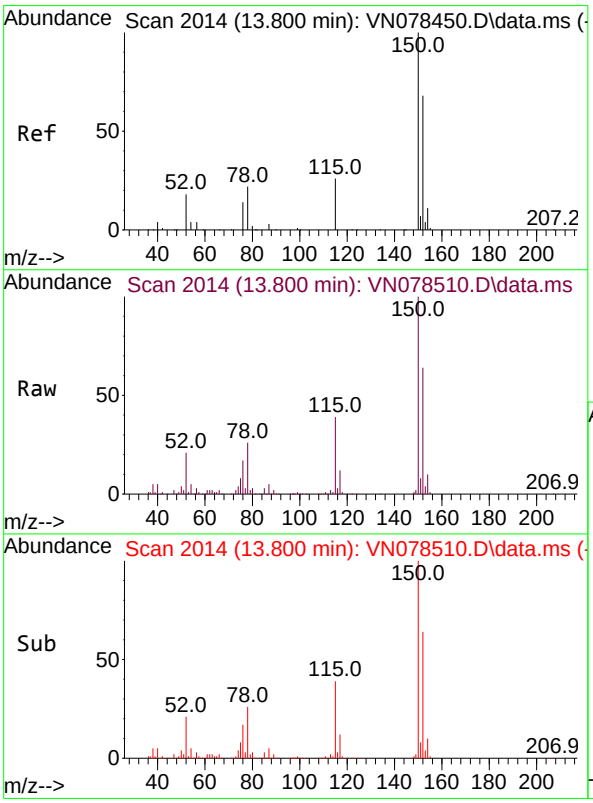
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Tgt Ion:117 Resp: 682507

Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.0	66.0
119	33.6	25.6	38.4

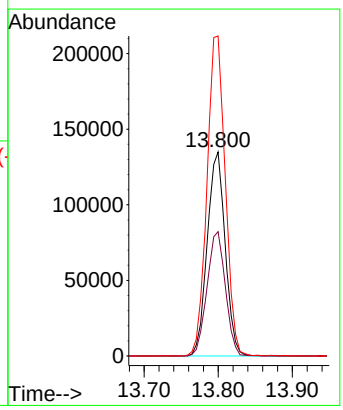




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078510.D
Acq: 14 Jul 2023 10:10

Tgt Ion:152 Resp: 227070

Ion	Ratio	Lower	Upper
152	100		
115	62.2	32.3	96.8
150	159.7	0.0	355.8



Sample Results: **VN078510.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Title : SW846 8260

Signal : TIC: VN078510.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.824	142	148	155	rVB3	23869	49635	2.24%	0.417%
2	7.447	927	934	944	rBV	18925	47553	2.15%	0.399%
3	8.177	1046	1058	1062	rBV	394993	900053	40.63%	7.560%
4	8.235	1062	1068	1082	rVB	563815	1270055	57.33%	10.668%
5	8.588	1118	1128	1141	rBV2	328719	761966	34.40%	6.400%
6	9.106	1208	1216	1234	rBV	799732	1685737	76.10%	14.160%
7	10.577	1457	1466	1477	rBV	1193466	2215211	100.00%	18.608%
8	11.871	1677	1686	1700	rBV	1142128	2060624	93.02%	17.309%
9	12.853	1845	1853	1863	rBV	844938	1485494	67.06%	12.478%
10	13.800	2006	2014	2024	rVB	824816	1428521	64.49%	11.999%

Sum of corrected areas: 11904849

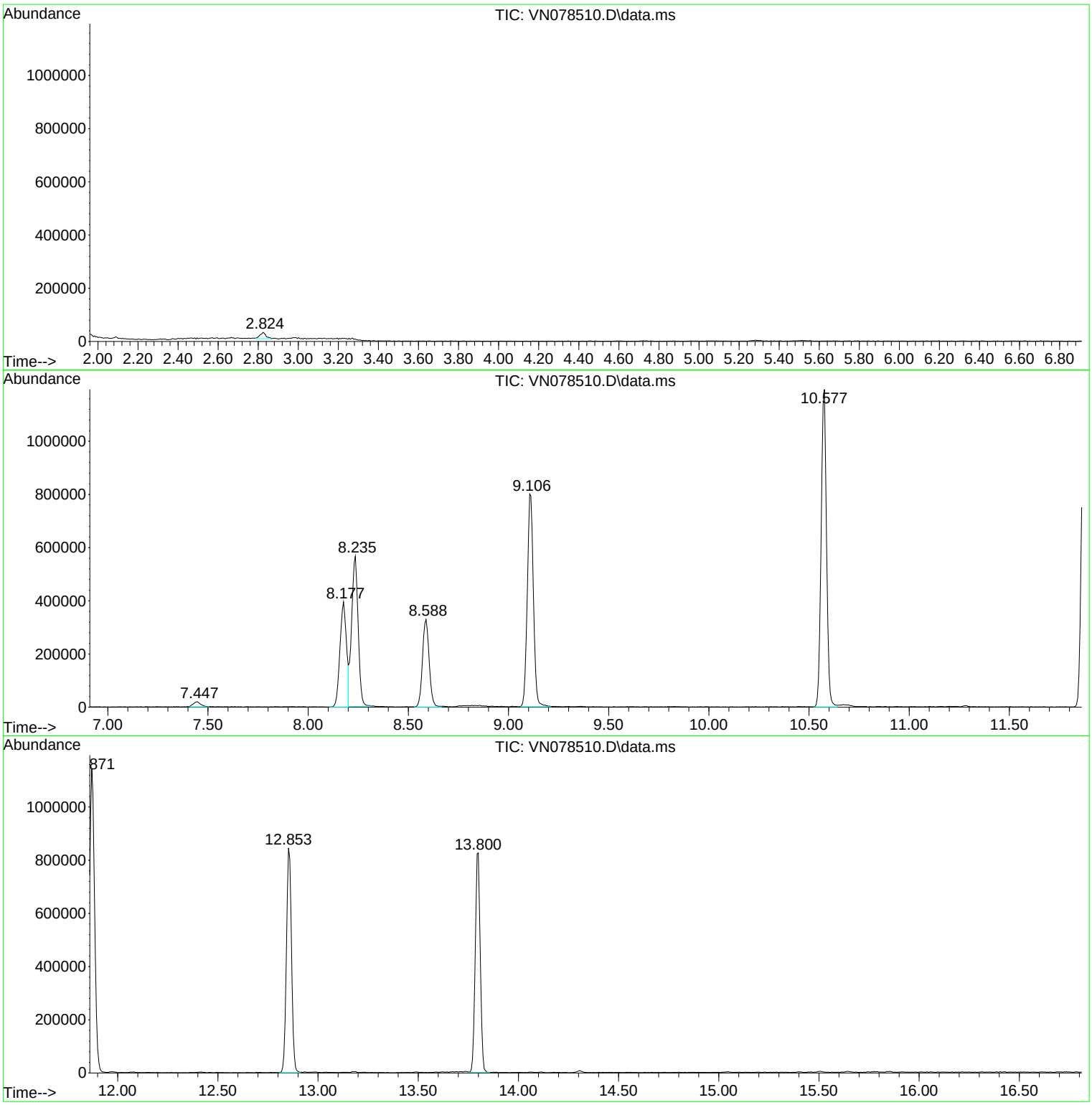
Sample Results: **VN078510.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078510.D
Acq On : 14 Jul 2023 10:10
Operator : JC\MD
Sample : VN0714WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBL01	SDG No.:	O3631
Lab Sample ID:	VY0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014664.D	1		07/17/23 11:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.60	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.93	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.20	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.79	5.00	ug/Kg
67-64-1	Acetone	25.0	U	9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.70	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	3.40	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.50	25.0	ug/Kg
108-88-3	Toluene	5.00	U	0.65	5.00	ug/Kg

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBL01	SDG No.:	O3631
Lab Sample ID:	VY0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014664.D	1		07/17/23 11:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.74	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.00	U	0.86	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	15.0	U	2.17	15.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.77	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.69	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	5.00	U	0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5.00	U	0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5.00	U	0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	5.00	U	0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	5.00	U	0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	5.00	U	0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		50 - 163	105%	SPK: 50

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBL01	SDG No.:	O3631
Lab Sample ID:	VY0717SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014664.D	1		07/17/23 11:54	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	49.6		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		30 - 143	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	241000	7.789			
540-36-3	1,4-Difluorobenzene	414000	8.685			
3114-55-4	Chlorobenzene-d5	382000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	181000	13.422			
TENTATIVE IDENTIFIED COMPOUNDS						
000110-54-3	n-Hexane	5.40	J		5.74	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Quant Time: Jul 18 06:06:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	240543	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	414239	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	381722	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	180919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	143902	52.498	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.000%			
35) Dibromofluoromethane	7.716	113	130781	49.596	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.200%			
50) Toluene-d8	10.179	98	486596	50.052	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.100%			
62) 4-Bromofluorobenzene	12.477	95	182539	48.968	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.940%			

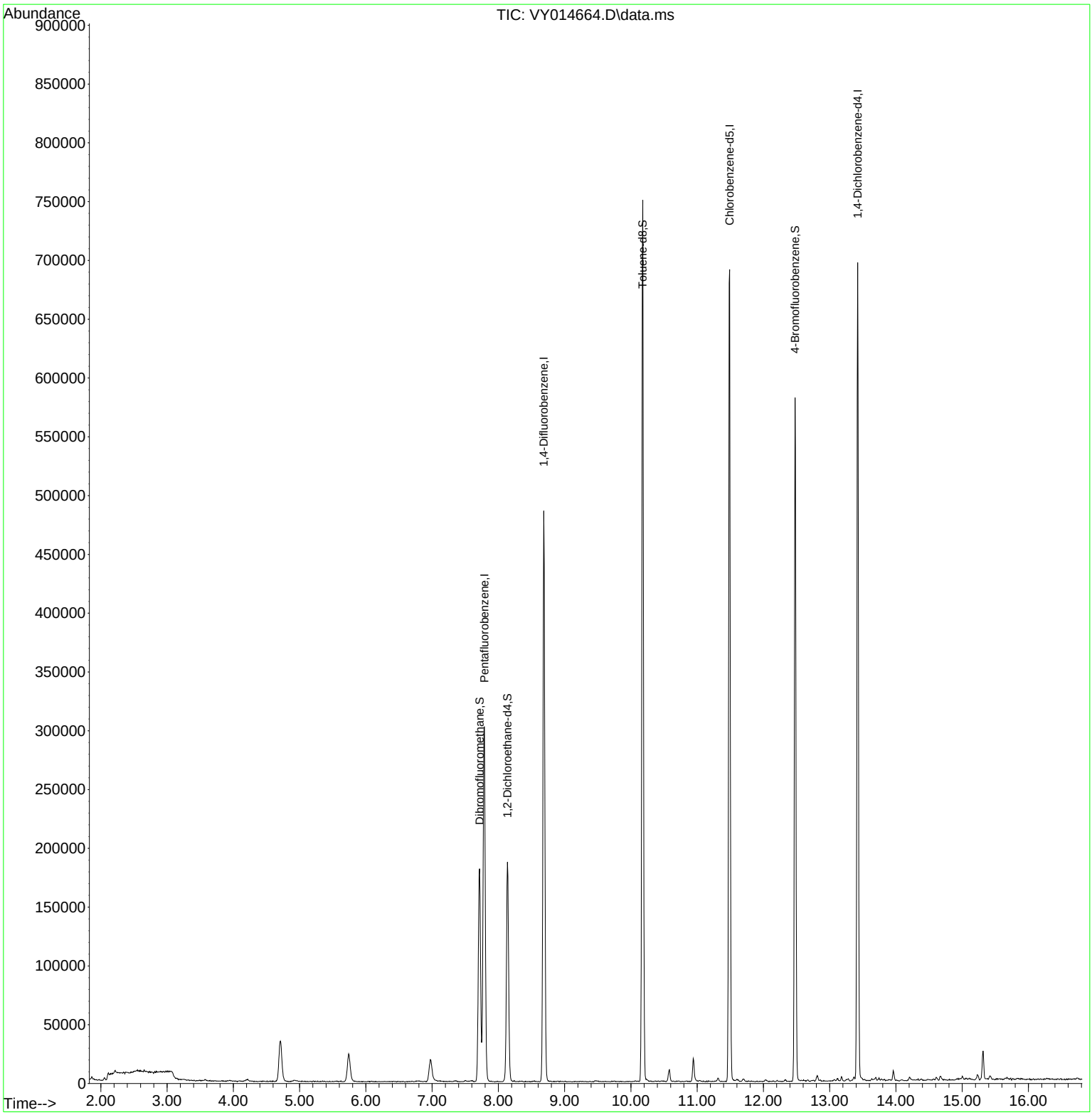
Target Compounds Qvalue

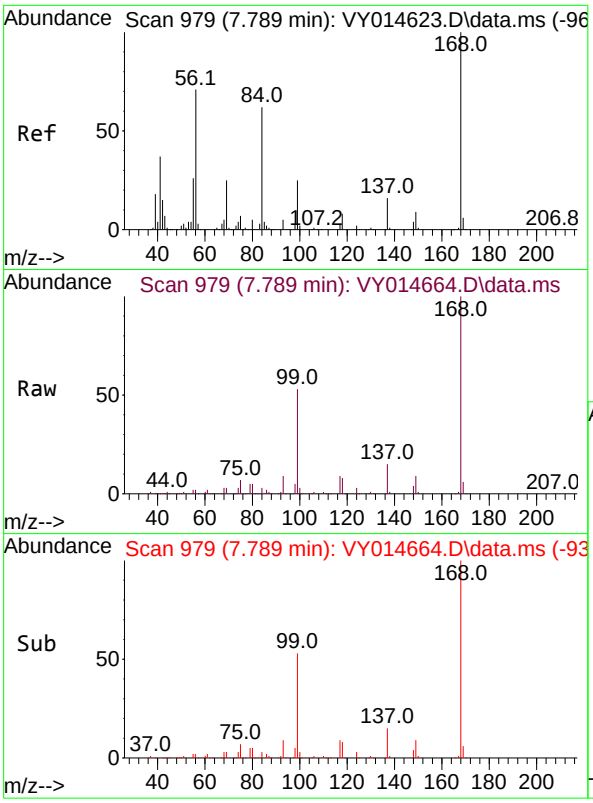
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Quant Time: Jul 18 06:06:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration



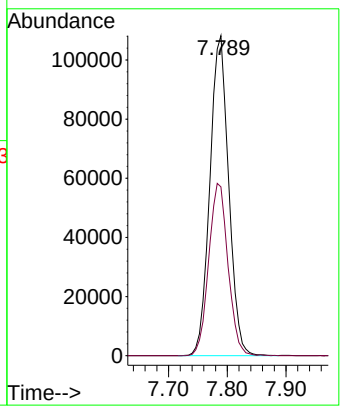


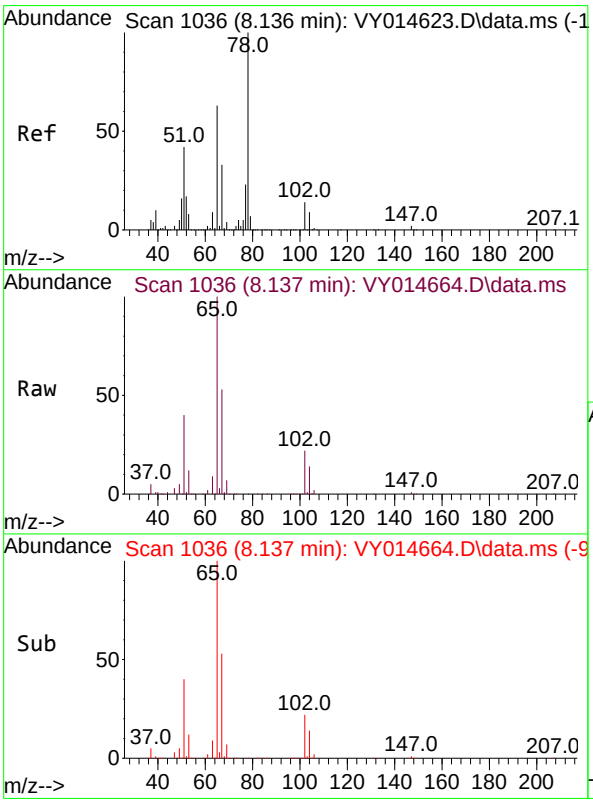
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Tgt Ion:168 Resp: 240543

Ion	Ratio	Lower	Upper
168	100		
99	52.8	43.4	65.0

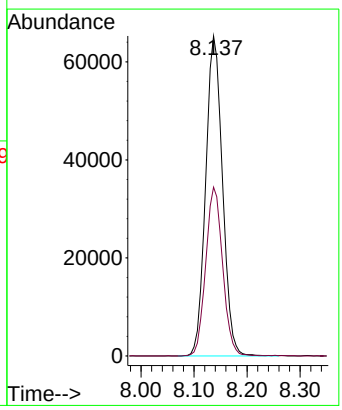


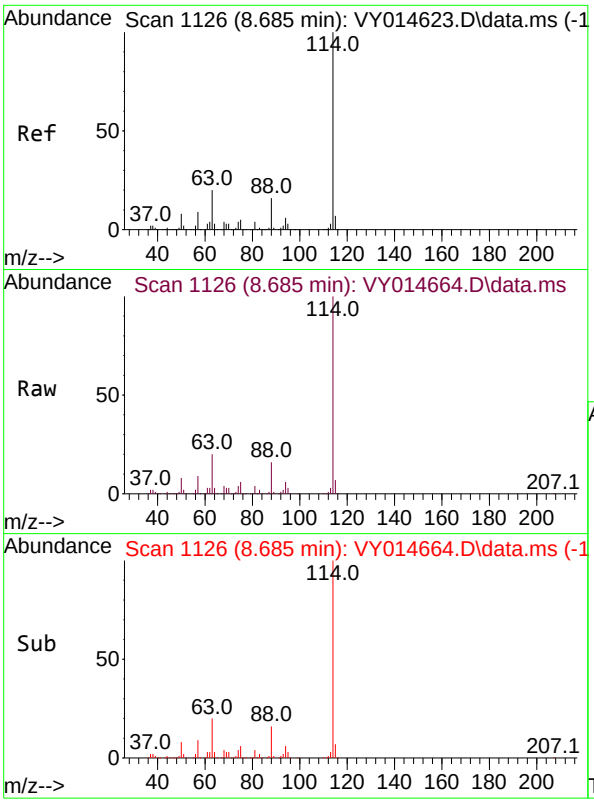


#33
1,2-Dichloroethane-d4
Concen: 52.498 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Tgt Ion: 65 Resp: 143902

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	101.8



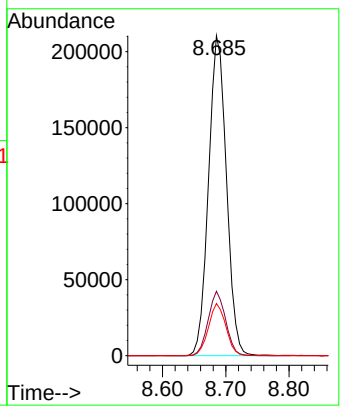


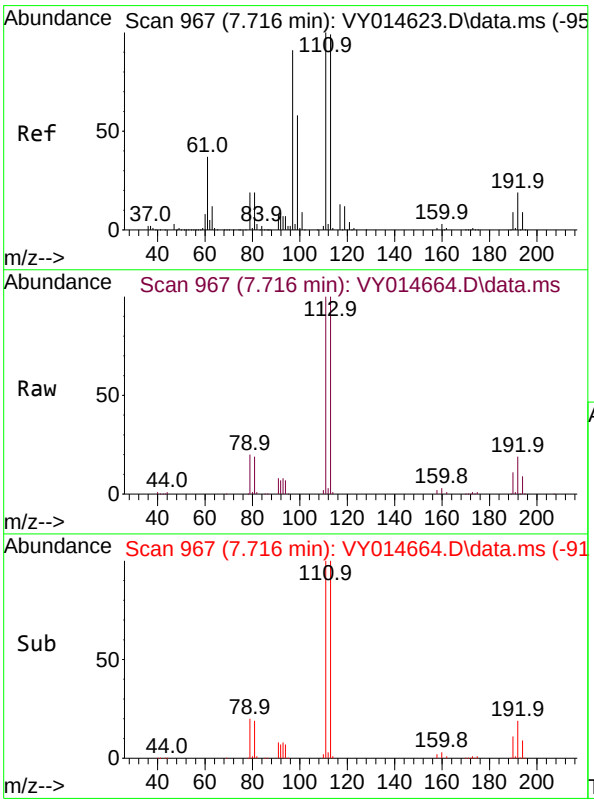
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Tgt Ion:114 Resp: 414239

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	16.3	0.0	30.6

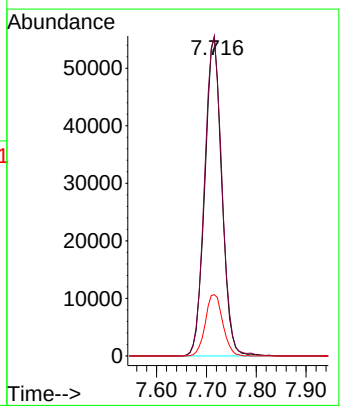


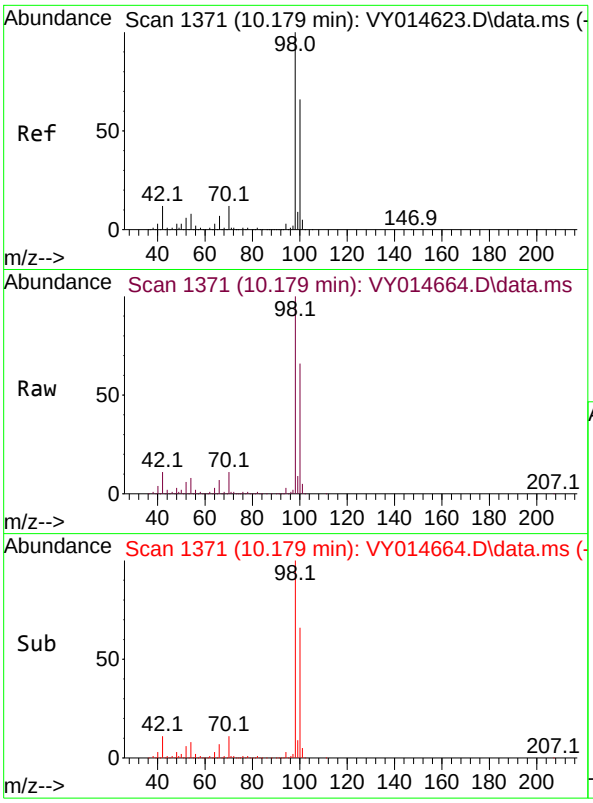


#35
Dibromofluoromethane
Concen: 49.596 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Tgt Ion:113 Resp: 130781

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.3	121.9
192	19.8	16.9	25.3



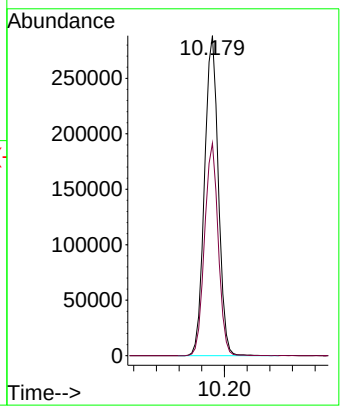


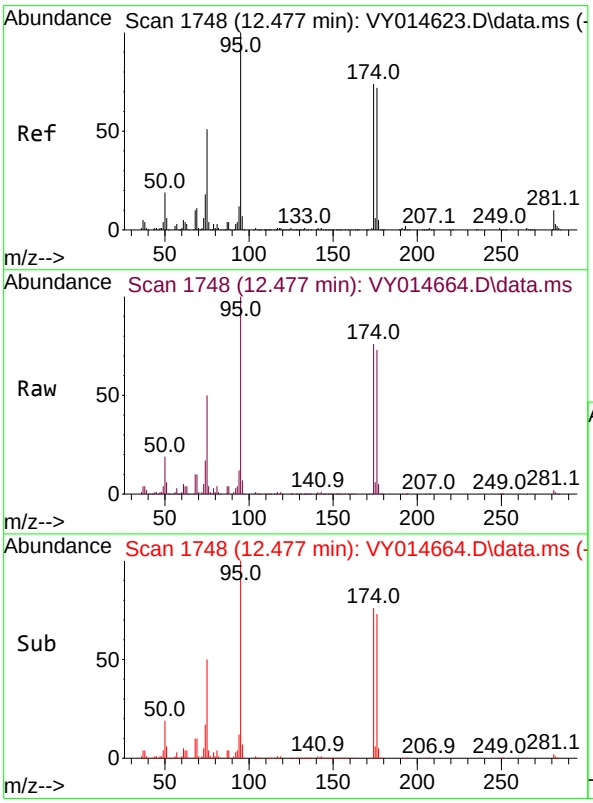
#50
Toluene-d8
Concen: 50.052 ug/l
RT: 10.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Tgt Ion: 98 Resp: 486596

Ion	Ratio	Lower	Upper
98	100		
100	65.7	50.1	75.1

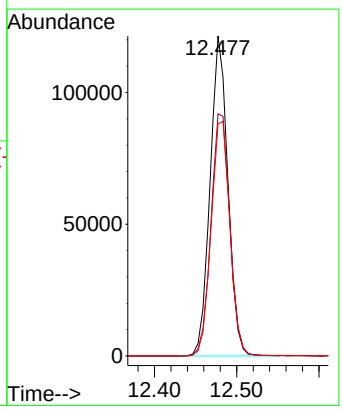


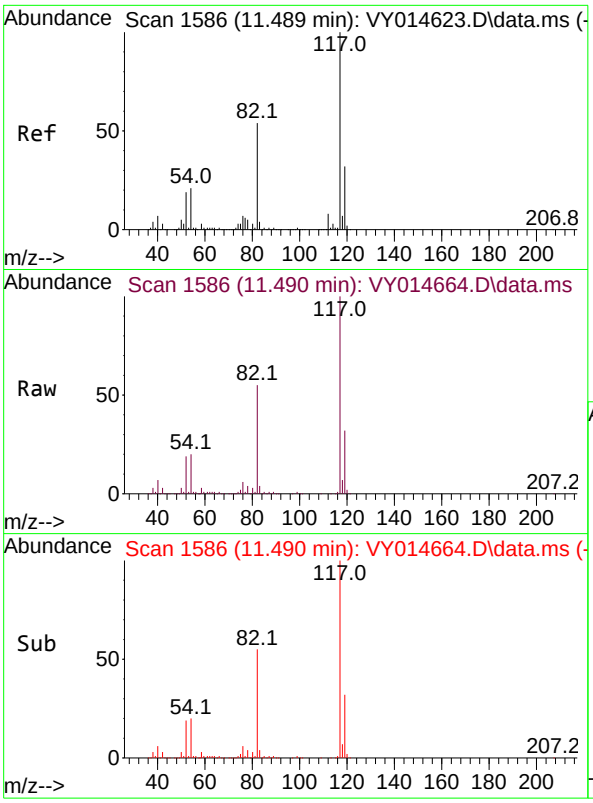


#62
4-Bromofluorobenzene
Concen: 48.968 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Tgt Ion: 95 Resp: 182539

Ion	Ratio	Lower	Upper
95	100		
174	80.2	0.0	178.2
176	77.6	0.0	173.8



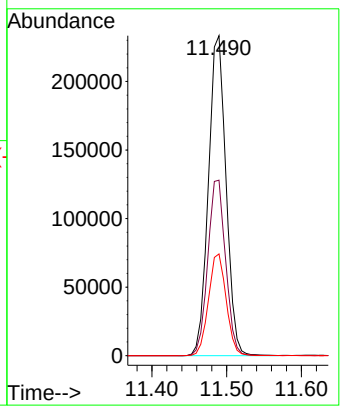


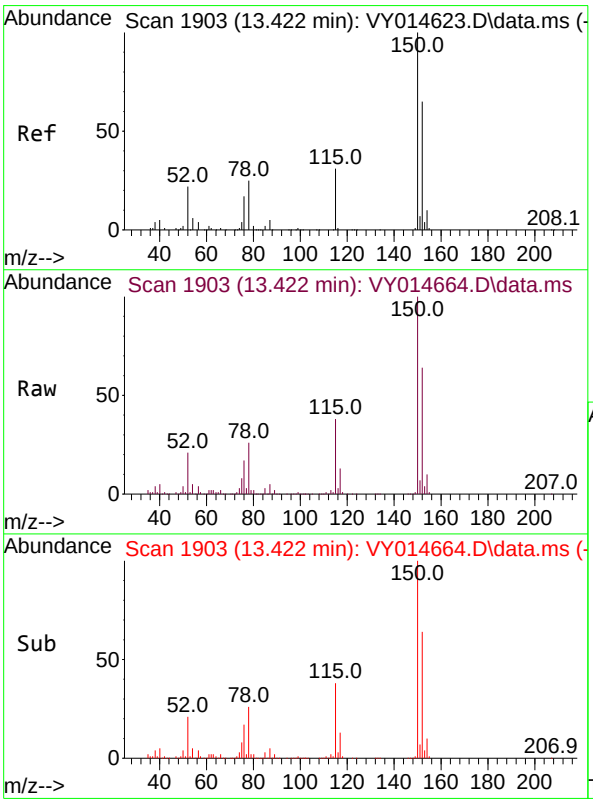
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Tgt Ion:117 Resp: 381722

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	31.8	26.3	39.5

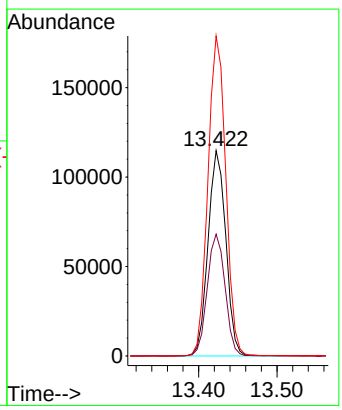




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014664.D
Acq: 17 Jul 2023 11:54

Tgt Ion:152 Resp: 180919

Ion	Ratio	Lower	Upper
152	100		
115	59.4	28.8	86.5
150	156.2	0.0	348.8



Sample Results: **VY014664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Title : SW846 8260

Signal : TIC: VY014664.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.710	461	474	486	rBV2	34462	110206	8.60%	1.514%
2	5.741	629	643	657	rBV2	23758	74931	5.84%	1.029%
3	6.972	834	845	864	rBV	19016	64846	5.06%	0.891%
4	7.716	955	967	972	rBV	180941	429380	33.49%	5.897%
5	7.789	972	979	995	rVB	301577	696664	54.34%	9.568%
6	8.137	1023	1036	1046	rBV	186811	417574	32.57%	5.735%
7	8.685	1115	1126	1137	rBV	485616	947043	73.87%	13.007%
8	10.179	1363	1371	1388	rBV	749540	1282030	100.00%	17.607%
9	10.581	1429	1437	1444	rBV2	10234	20166	1.57%	0.277%
10	10.941	1489	1496	1505	rBV2	19742	36813	2.87%	0.506%
11	11.490	1577	1586	1598	rBV	690954	1149339	89.65%	15.785%
12	12.477	1740	1748	1757	rBV	581592	913730	71.27%	12.549%
13	13.422	1896	1903	1916	rVB	695071	1093901	85.33%	15.023%
14	15.318	2205	2214	2221	rBV	24602	44665	3.48%	0.613%

Sum of corrected areas: 7281288

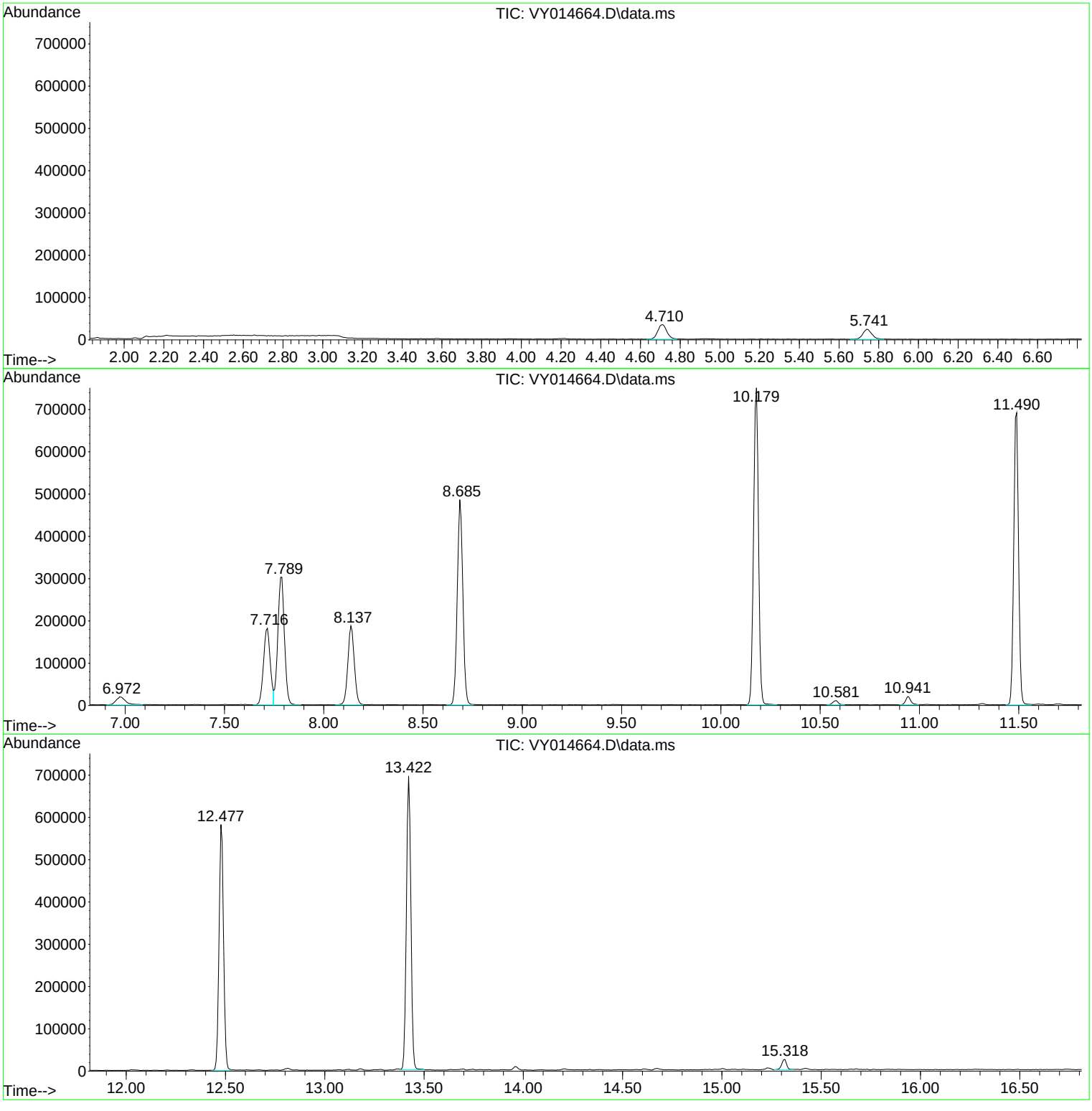
Sample Results: **VY014664.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

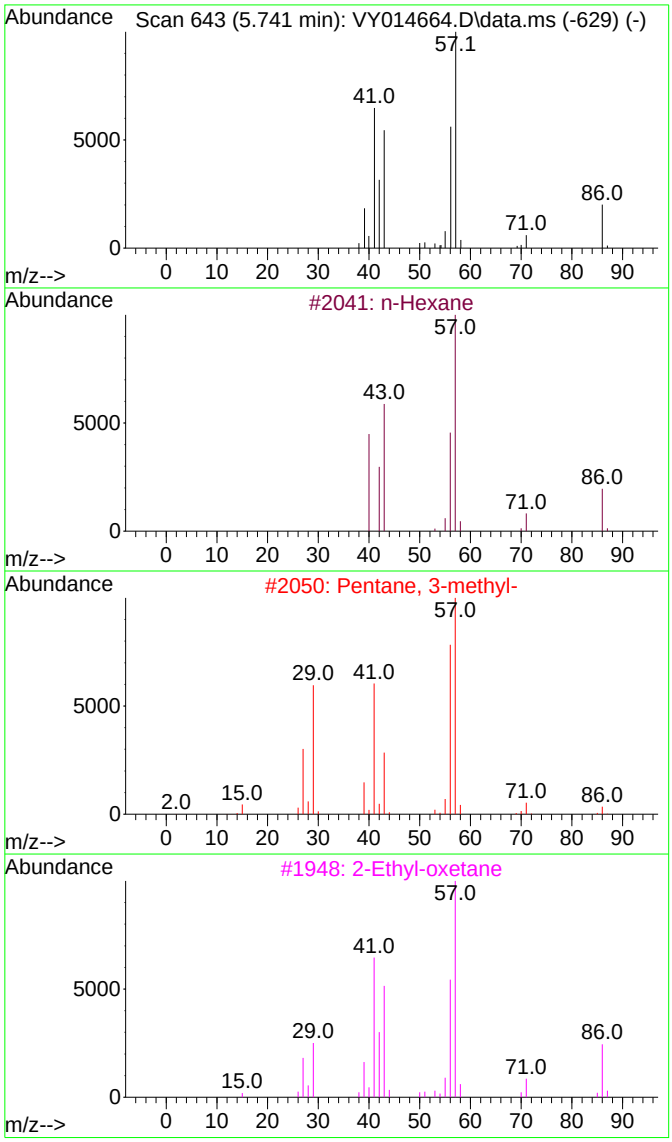
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

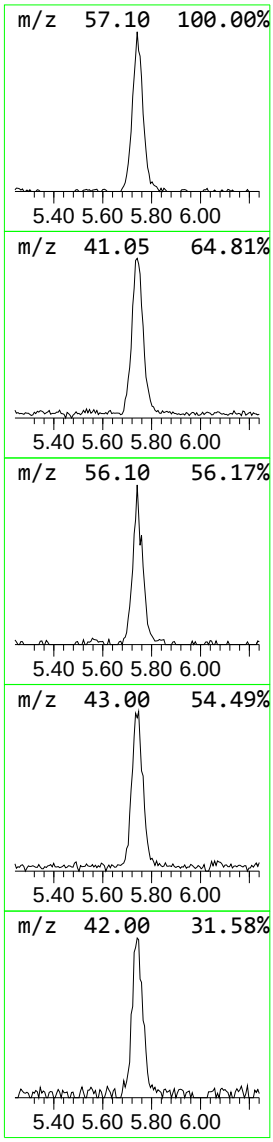
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Peak Number 2 n-Hexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.741	5.38 ug/l	74931	Pentafluorobenzene	7.789

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	80
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	53
3	2-Ethyl-oxetane	86	C5H10O	1010386-40-2	40
4	Propanal, 2,2-dimethyl-	86	C5H10O	000630-19-3	38
5	Morpholine	87	C4H9NO	000110-91-8	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014664.D
Acq On : 17 Jul 2023 11:54
Operator : SY/MD
Sample : VY0717SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexane	5.741	5.4	ug/l	74931	1	7.789	696664	50.0

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBS01	SDG No.:	O3631
Lab Sample ID:	VN0714WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078511.D	1		07/14/23 10:34	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.6		0.14	1.00	ug/L
74-87-3	Chloromethane	21.7		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	19.5		0.25	1.00	ug/L
74-83-9	Bromomethane	18.7		1.60	5.00	ug/L
75-00-3	Chloroethane	20.8		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	22.8		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.6		0.21	1.00	ug/L
67-64-1	Acetone	110		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	20.2		0.36	1.00	ug/L
75-09-2	Methylene Chloride	20.6		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.7		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.0		0.16	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.3		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.8		0.20	1.00	ug/L
74-97-5	Bromochloromethane	19.7		0.14	1.00	ug/L
67-66-3	Chloroform	21.3		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	19.7		0.16	1.00	ug/L
71-43-2	Benzene	20.6		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.16	1.00	ug/L
79-01-6	Trichloroethene	19.6		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.74	5.00	ug/L
108-88-3	Toluene	20.3		0.14	1.00	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBS01	SDG No.:	O3631
Lab Sample ID:	VN0714WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078511.D	1		07/14/23 10:34	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.0		0.15	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.3		0.13	1.00	ug/L
591-78-6	2-Hexanone	110		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	21.5		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.9		0.31	2.00	ug/L
1330-20-7	Total Xylenes	60.7		0.46	3.00	ug/L
95-47-6	o-Xylene	19.8		0.15	1.00	ug/L
100-42-5	Styrene	20.0		0.13	1.00	ug/L
75-25-2	Bromoform	20.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.15	1.00	ug/L
103-65-1	n-propylbenzene	19.6		0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.8		0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	19.3		0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.0		0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	19.4		0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	19.6		0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.2		0.24	1.00	ug/L
104-51-8	n-Butylbenzene	19.8		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.3		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.4		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.0		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		74 - 125	104%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBS01	SDG No.:	O3631
Lab Sample ID:	VN0714WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078511.D	1		07/14/23 10:34	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	51.5		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	51.1		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	449000	8.235			
540-36-3	1,4-Difluorobenzene	780000	9.106			
3114-55-4	Chlorobenzene-d5	688000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	271000	13.794			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078511.D
Acq On : 14 Jul 2023 10:34
Operator : JC\MD
Sample : VN0714WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 03:57:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	448999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	779605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	687589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	270572	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	312970	51.994	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.980%			
35) Dibromofluoromethane	8.171	113	272756	51.539	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.080%			
50) Toluene-d8	10.571	98	1021138	51.076	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.160%			
62) 4-Bromofluorobenzene	12.853	95	313502	50.909	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 101.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	102220	18.569	ug/l	99
3) Chloromethane	2.371	50	129958	21.720	ug/l	96
4) Vinyl Chloride	2.518	62	150799	19.483	ug/l	96
5) Bromomethane	2.959	94	106770	18.696	ug/l	96
6) Chloroethane	3.124	64	102692	20.811	ug/l	97
7) Trichlorofluoromethane	3.506	101	210826	22.786	ug/l	100
8) Diethyl Ether	3.977	74	61427	19.926	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.383	101	96893	19.783	ug/l	95
10) Methyl Iodide	4.600	142	131257	19.502	ug/l	94
11) Tert butyl alcohol	5.542	59	93884	101.147	ug/l	100
12) 1,1-Dichloroethene	4.353	96	92900	19.609	ug/l	96
13) Acrolein	4.195	56	99708	109.183	ug/l	98
14) Allyl chloride	5.036	41	133010	20.546	ug/l	95
15) Acrylonitrile	5.730	53	246230	104.993	ug/l	99
16) Acetone	4.442	43	207517	110.675	ug/l	94
17) Carbon Disulfide	4.718	76	240612	17.563	ug/l	98
18) Methyl Acetate	5.036	43	160684	20.244	ug/l	91
19) Methyl tert-butyl Ether	5.812	73	314674	20.158	ug/l	99
20) Methylene Chloride	5.289	84	114862	20.639	ug/l	91
21) trans-1,2-Dichloroethene	5.794	96	104977	19.663	ug/l	92
22) Diisopropyl ether	6.689	45	300736	20.746	ug/l	95
23) Vinyl Acetate	6.618	43	943442	102.375	ug/l #	89
24) 1,1-Dichloroethane	6.577	63	195397	20.004	ug/l	99
25) 2-Butanone	7.494	43	317074	107.427	ug/l #	87
26) 2,2-Dichloropropane	7.500	77	163727	20.494	ug/l	94
27) cis-1,2-Dichloroethene	7.500	96	122153	19.778	ug/l	95
28) Bromochloromethane	7.818	49	90840	19.745	ug/l #	5
29) Tetrahydrofuran	7.853	42	194296	100.323	ug/l	87
30) Chloroform	7.977	83	216497	21.289	ug/l	99
31) Cyclohexane	8.271	56	155281	19.088	ug/l	92
32) 1,1,1-Trichloroethane	8.177	97	185049	20.296	ug/l	99
36) 1,1-Dichloropropene	8.377	75	155087	20.295	ug/l	96
37) Ethyl Acetate	7.577	43	127345	19.991	ug/l	94
38) Carbon Tetrachloride	8.371	117	168378	20.274	ug/l	96
39) Methylcyclohexane	9.606	83	137525	19.717	ug/l #	87
40) Benzene	8.612	78	465357	20.556	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078511.D
Acq On : 14 Jul 2023 10:34
Operator : JC\MD
Sample : VN0714WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 03:57:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	63157	19.449	ug/l		92
42) 1,2-Dichloroethane	8.682	62	156775	20.360	ug/l		98
43) Isopropyl Acetate	8.700	43	216786	20.671	ug/l	#	93
44) Trichloroethene	9.359	130	119411	19.571	ug/l		99
45) 1,2-Dichloropropane	9.629	63	117552	20.502	ug/l		94
46) Dibromomethane	9.712	93	82619	20.473	ug/l		91
47) Bromodichloromethane	9.894	83	166542	20.587	ug/l		94
48) Methyl methacrylate	9.688	41	96495	19.860	ug/l		91
49) 1,4-Dioxane	9.706	88	43106	406.813	ug/l		94
51) 4-Methyl-2-Pentanone	10.453	43	656743	105.280	ug/l		94
52) Toluene	10.635	92	285381	20.340	ug/l		95
53) t-1,3-Dichloropropene	10.841	75	169995	20.512	ug/l		94
54) cis-1,3-Dichloropropene	10.318	75	185661	21.017	ug/l		93
55) 1,1,2-Trichloroethane	11.024	97	117958	21.338	ug/l		96
56) Ethyl methacrylate	10.876	69	155173	20.080	ug/l		90
57) 1,3-Dichloropropane	11.171	76	191598	20.384	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	266678	96.836	ug/l		93
59) 2-Hexanone	11.200	43	467204	105.381	ug/l		93
60) Dibromochloromethane	11.365	129	130926	21.453	ug/l		98
61) 1,2-Dibromoethane	11.476	107	117265	20.592	ug/l		99
64) Tetrachloroethene	11.106	164	104821	20.277	ug/l		97
65) Chlorobenzene	11.894	112	303236	19.730	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.970	131	119889	20.277	ug/l		98
67) Ethyl Benzene	11.970	91	520269	20.026	ug/l		97
68) m/p-Xylenes	12.076	106	392529	40.866	ug/l		98
69) o-Xylene	12.406	106	191882	19.778	ug/l		96
70) Styrene	12.418	104	303048	19.966	ug/l		98
71) Bromoform	12.582	173	82339	20.563	ug/l	#	100
73) Isopropylbenzene	12.700	105	483662	19.024	ug/l		99
74) N-amyl acetate	12.500	43	163986	18.716	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.941	83	164335	21.369	ug/l		98
76) 1,2,3-Trichloropropane	13.000	75	125415m	19.176	ug/l		
77) Bromobenzene	12.988	156	116056	20.066	ug/l		96
78) n-propylbenzene	13.041	91	531712	19.556	ug/l		100
79) 2-Chlorotoluene	13.129	91	340032	19.093	ug/l		98
80) 1,3,5-Trimethylbenzene	13.176	105	397119	19.769	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.741	75	51656	20.756	ug/l		96
82) 4-Chlorotoluene	13.223	91	315165	18.970	ug/l		98
83) tert-Butylbenzene	13.447	119	329152	19.299	ug/l		96
84) 1,2,4-Trimethylbenzene	13.488	105	389781	19.976	ug/l		98
85) sec-Butylbenzene	13.623	105	418245	19.401	ug/l		100
86) p-Isopropyltoluene	13.735	119	338944	19.581	ug/l		99
87) 1,3-Dichlorobenzene	13.741	146	190951	19.564	ug/l		97
88) 1,4-Dichlorobenzene	13.817	146	179400	18.249	ug/l		97
89) n-Butylbenzene	14.059	91	245450	19.818	ug/l		96
90) Hexachloroethane	14.341	117	65328	20.045	ug/l		83
91) 1,2-Dichlorobenzene	14.112	146	181949	18.732	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	26103	20.306	ug/l		97
93) 1,2,4-Trichlorobenzene	15.400	180	50909	16.422	ug/l		98
94) Hexachlorobutadiene	15.511	225	33949	18.567	ug/l		99
95) Naphthalene	15.647	128	152782	14.416	ug/l		98
96) 1,2,3-Trichlorobenzene	15.847	180	57032	16.000	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078511.D
Acq On : 14 Jul 2023 10:34
Operator : JC\MD
Sample : VN0714WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 03:57:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

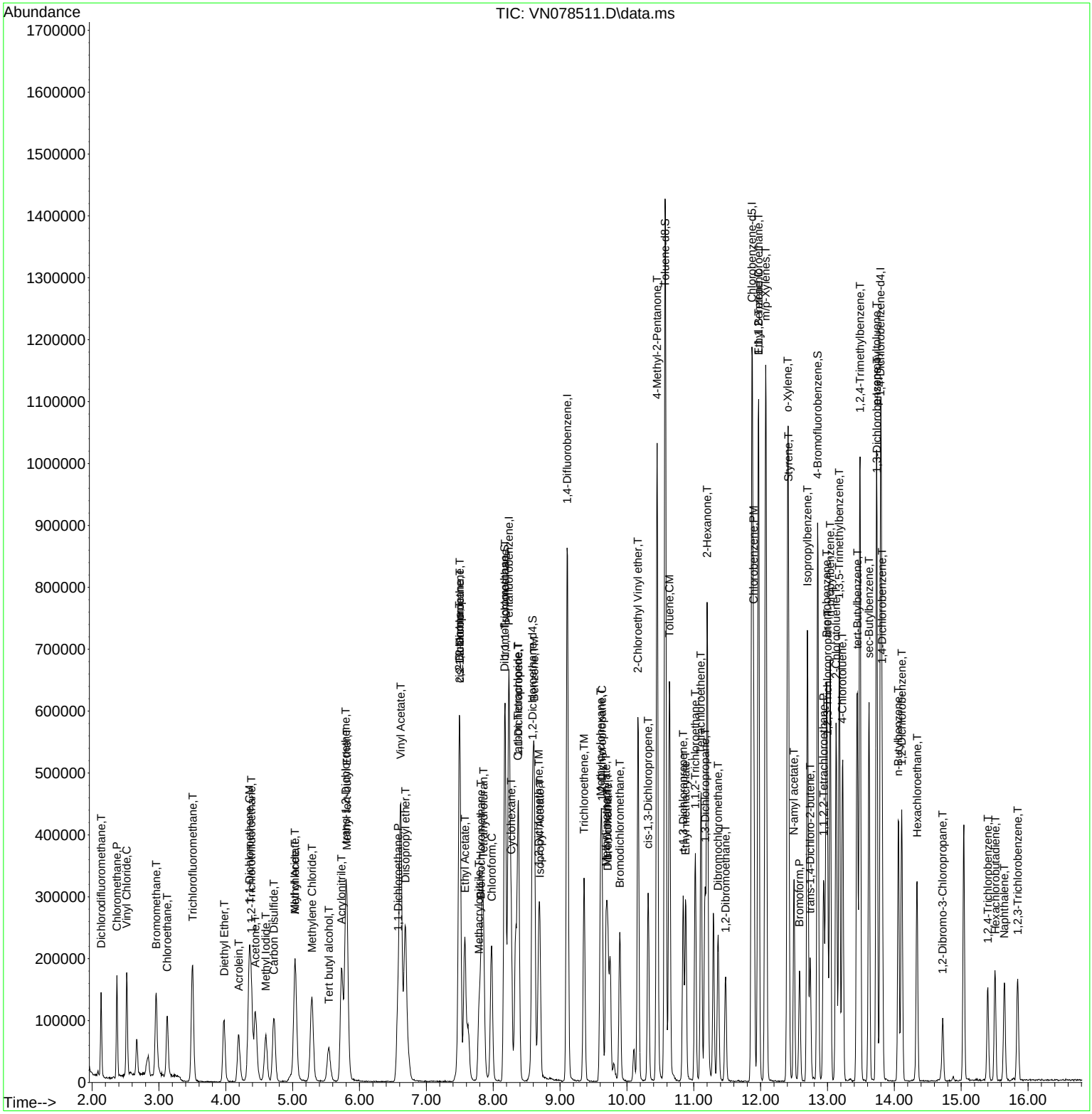
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078511.D
Acq On : 14 Jul 2023 10:34
Operator : JC\MD
Sample : VN0714WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

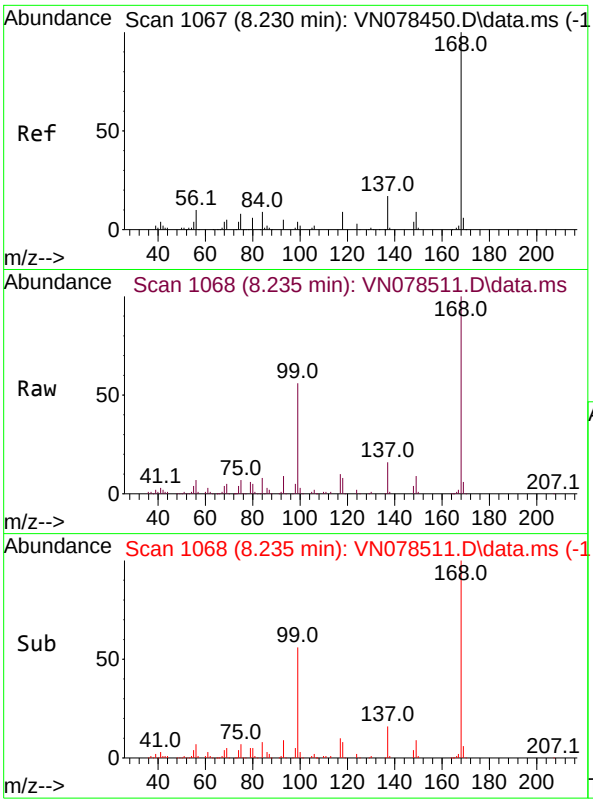
Quant Time: Jul 15 03:57:13 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
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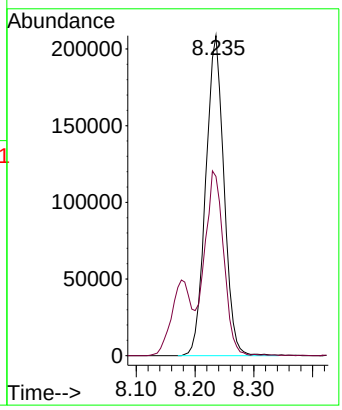




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:168 Resp: 44899

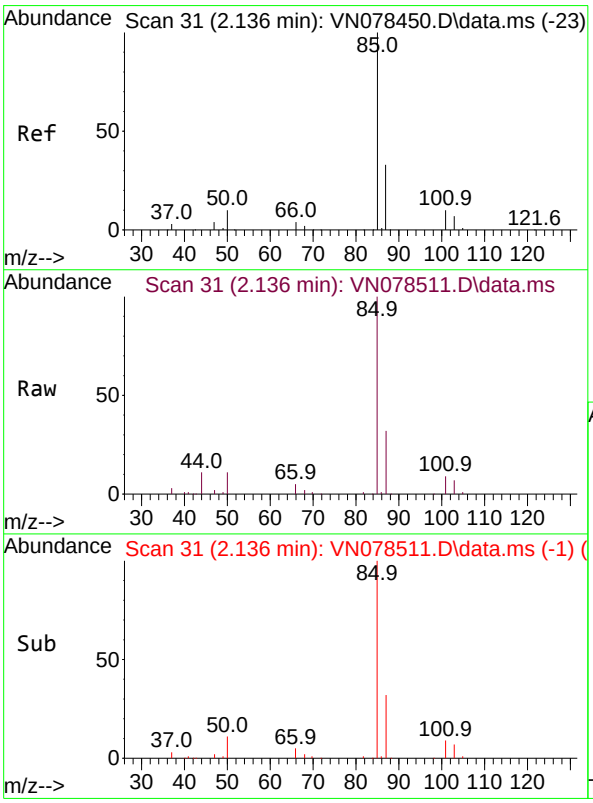
Ion	Ratio	Lower	Upper
168	100		
99	55.9	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

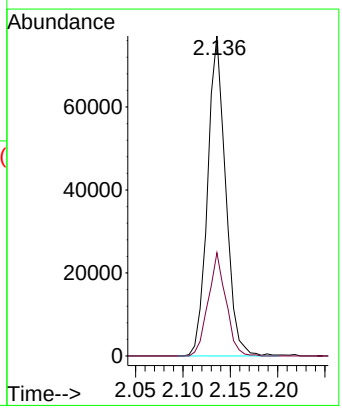
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

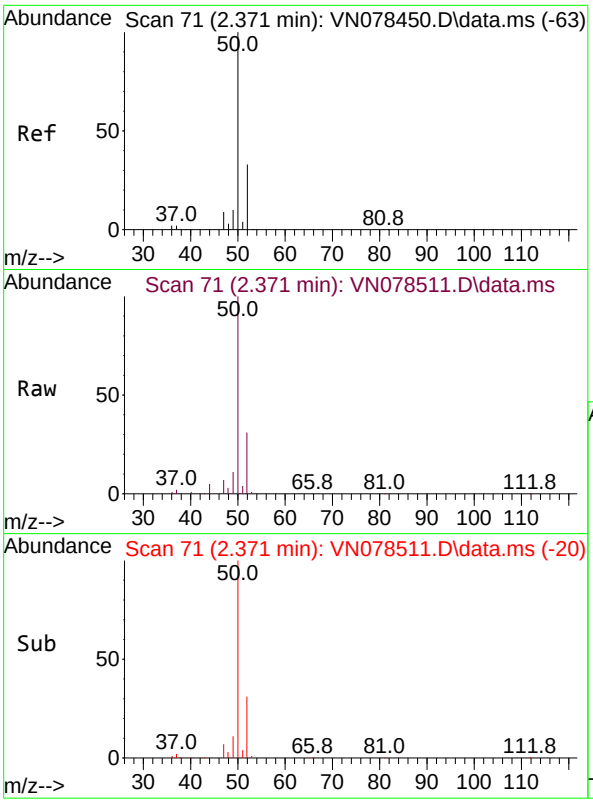


#2
Dichlorodifluoromethane
Concen: 18.569 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 85 Resp: 102220

Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.8	47.4

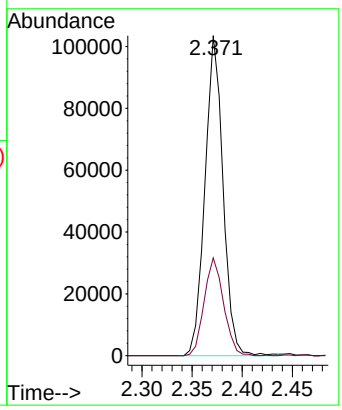




#3
Chloromethane
Concen: 21.720 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 50 Resp: 12995

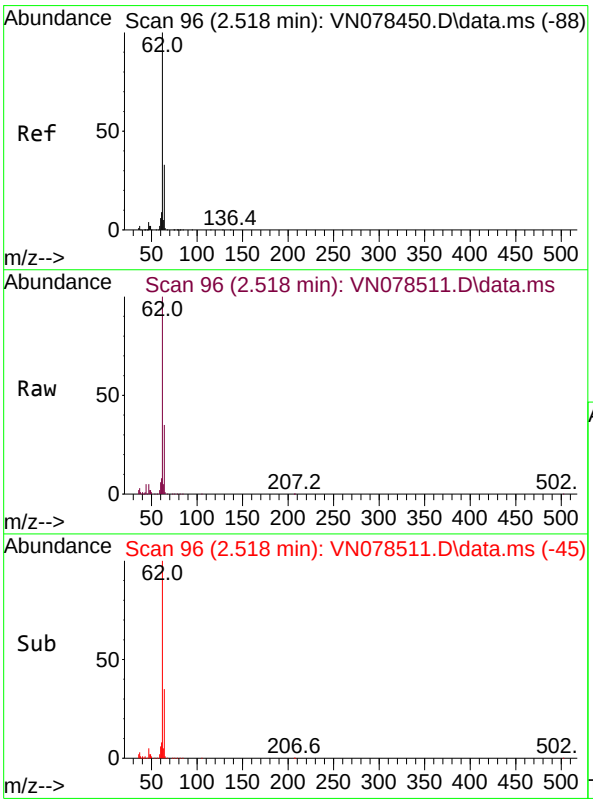
Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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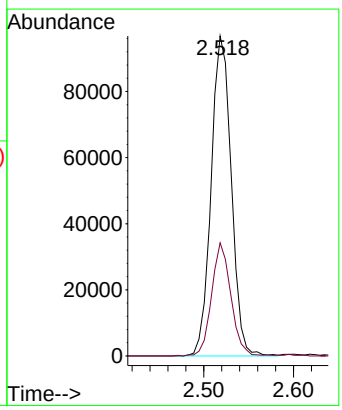
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

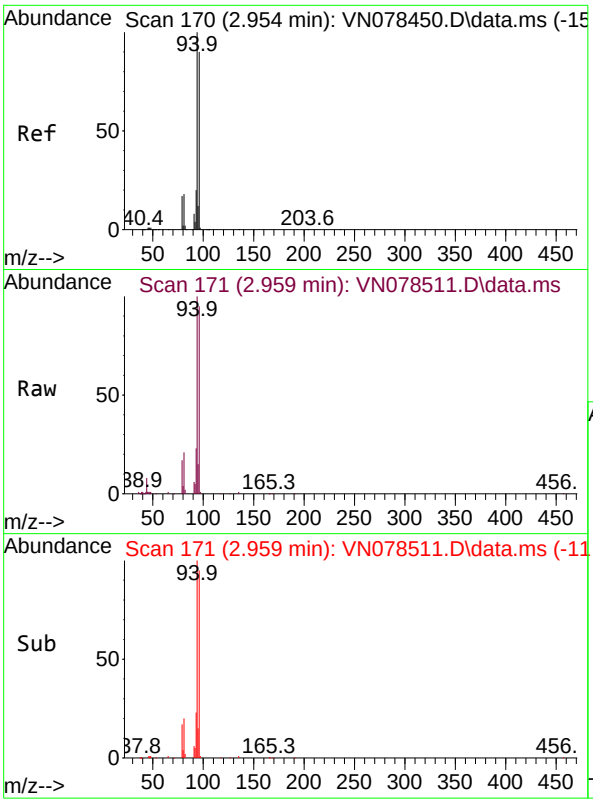


#4
Vinyl Chloride
Concen: 19.483 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 62 Resp: 150799

Ion	Ratio	Lower	Upper
62	100		
64	35.1	26.2	39.2

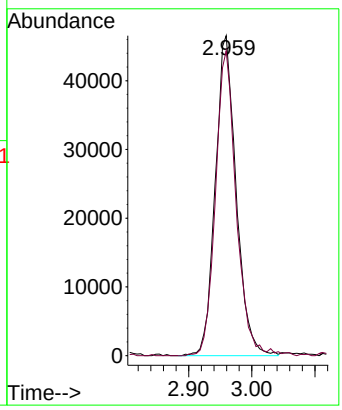




#5
Bromomethane
Concen: 18.696 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 94 Resp: 10677

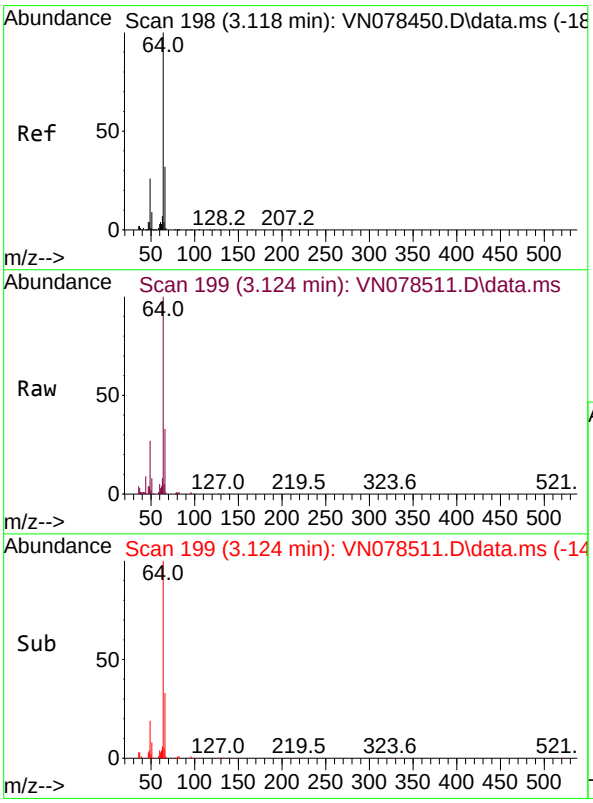
Ion	Ratio	Lower	Upper
94	100		
96	95.3	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

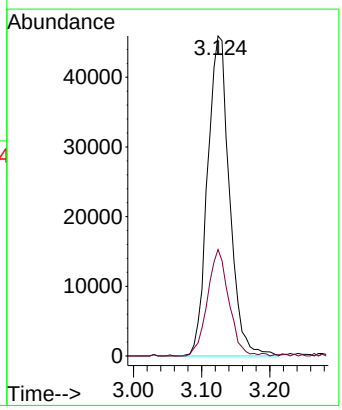
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

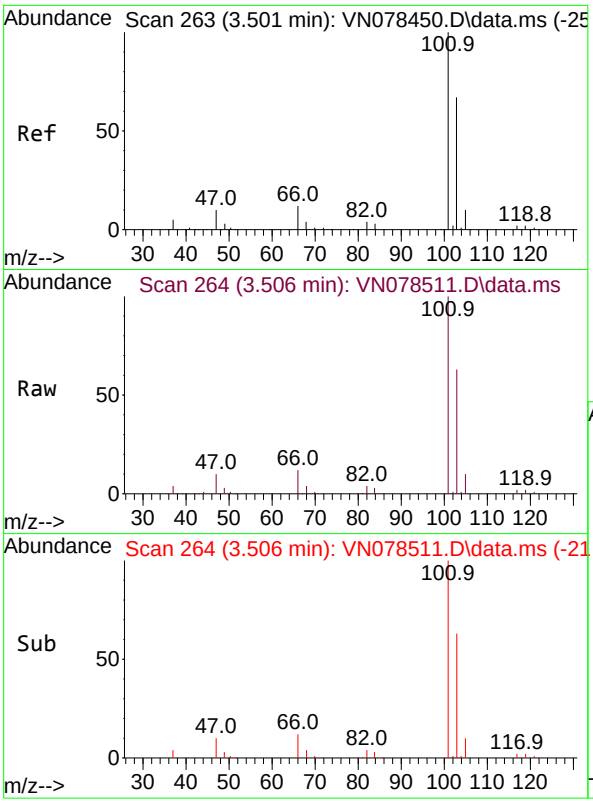


#6
Chloroethane
Concen: 20.811 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 64 Resp: 102692

Ion	Ratio	Lower	Upper
64	100		
66	33.2	25.4	38.2

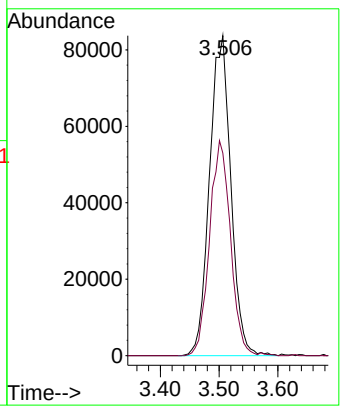




#7
Trichlorofluoromethane
Concen: 22.786 ug/l
RT: 3.506 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:101 Resp: 21082

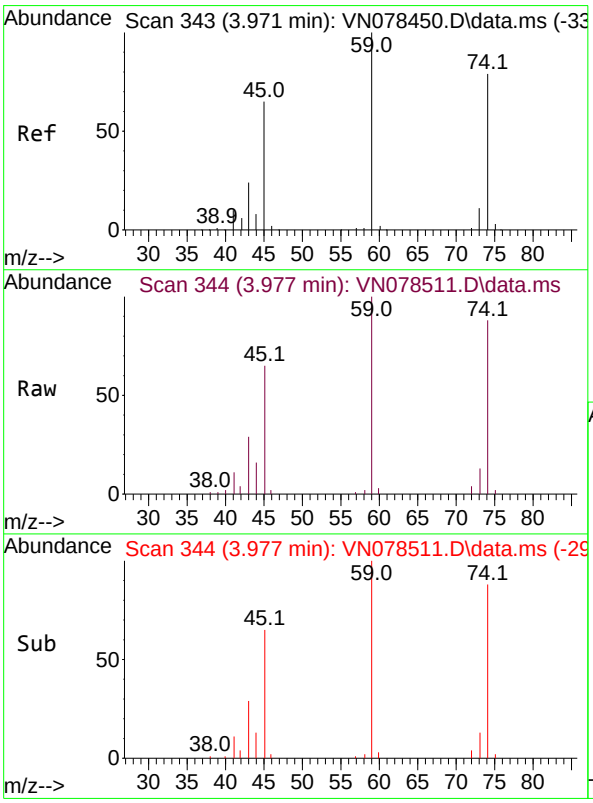
Ion	Ratio	Lower	Upper
101	100		
103	63.3	50.7	76.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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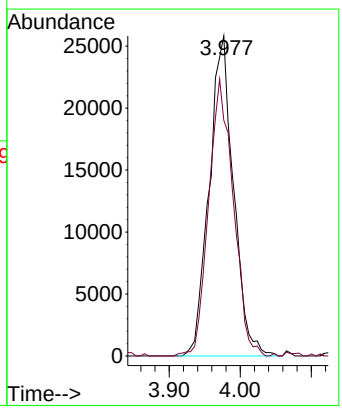
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

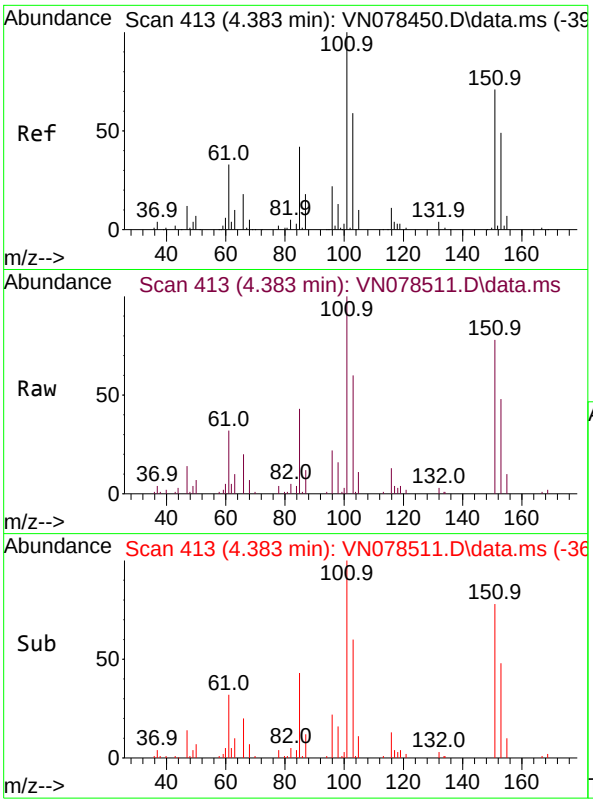


#8
Diethyl Ether
Concen: 19.926 ug/l
RT: 3.977 min Scan# 344
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 74 Resp: 61427

Ion	Ratio	Lower	Upper
74	100		
45	87.6	34.4	103.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.783 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

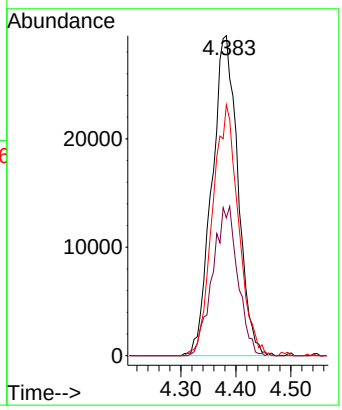
Tgt Ion:101 Resp: 9689

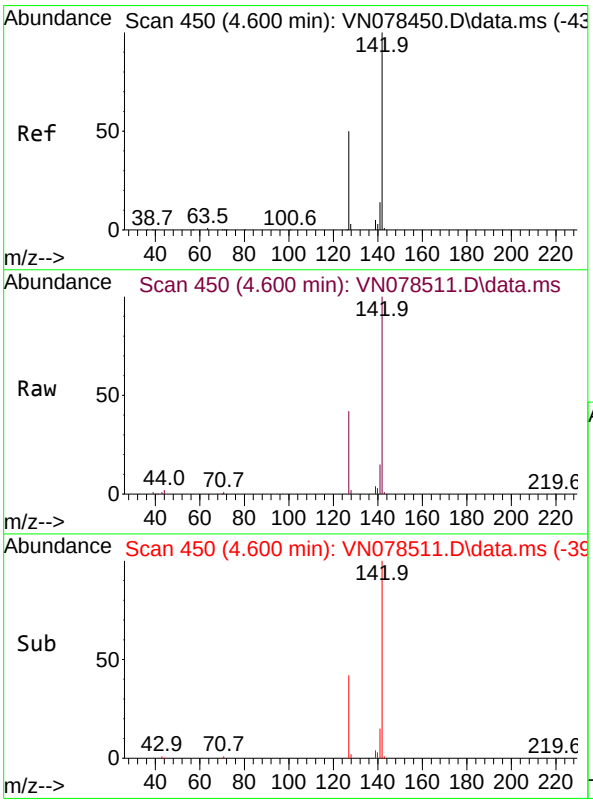
Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.6	55.0
151	78.1	57.6	86.4

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

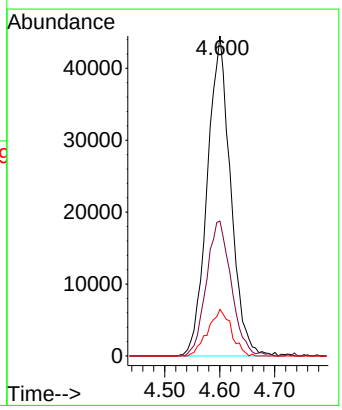


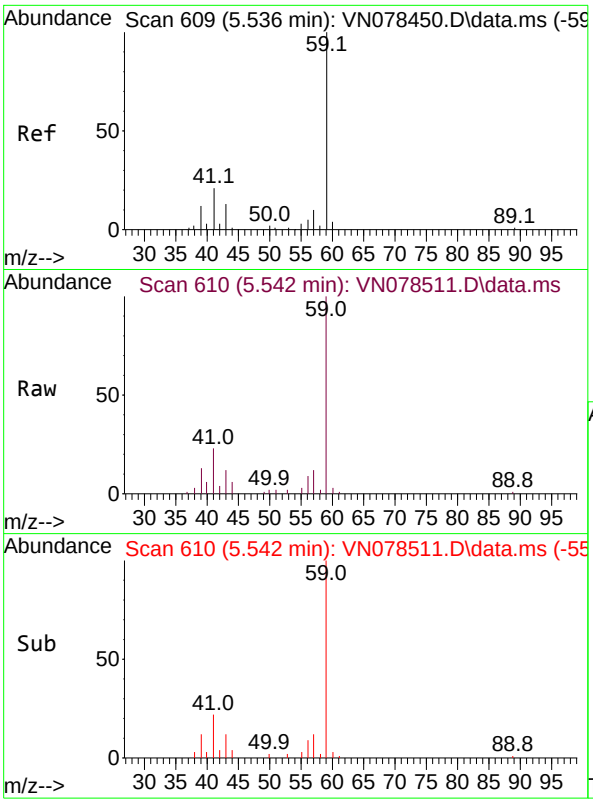


#10
Methyl Iodide
Concen: 19.502 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:142 Resp: 131257

Ion	Ratio	Lower	Upper
142	100		
127	42.2	37.6	56.4
141	14.6	11.4	17.0

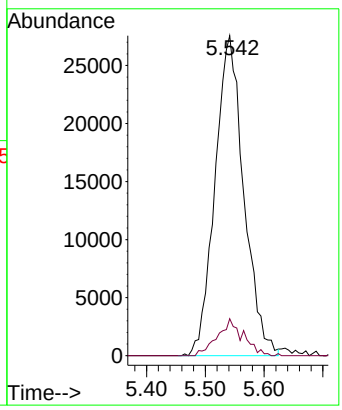




#11
Tert butyl alcohol
Concen: 101.147 ug/l
RT: 5.542 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 59 Resp: 9388

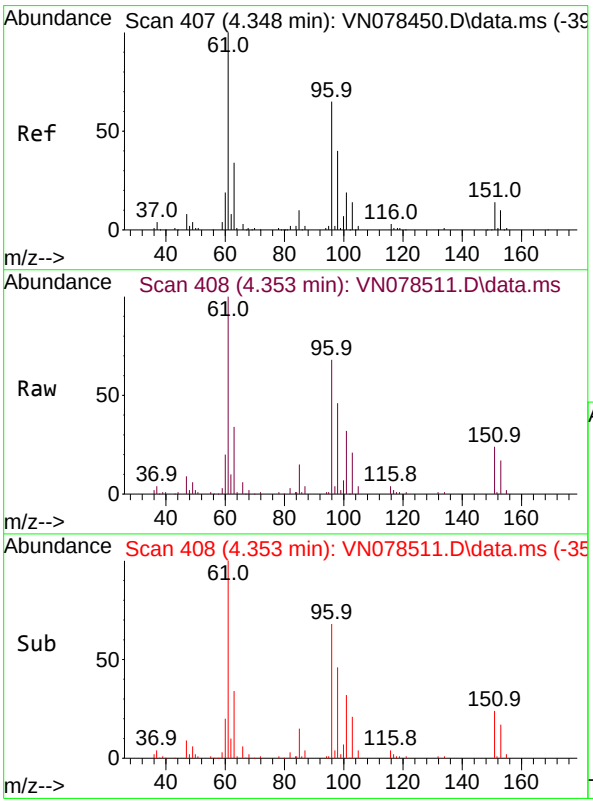
Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

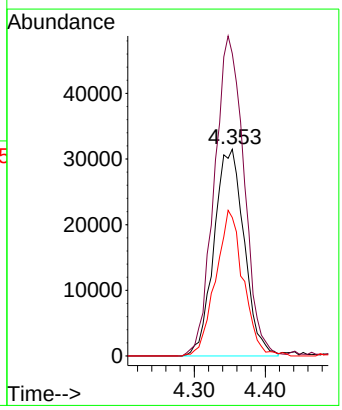
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

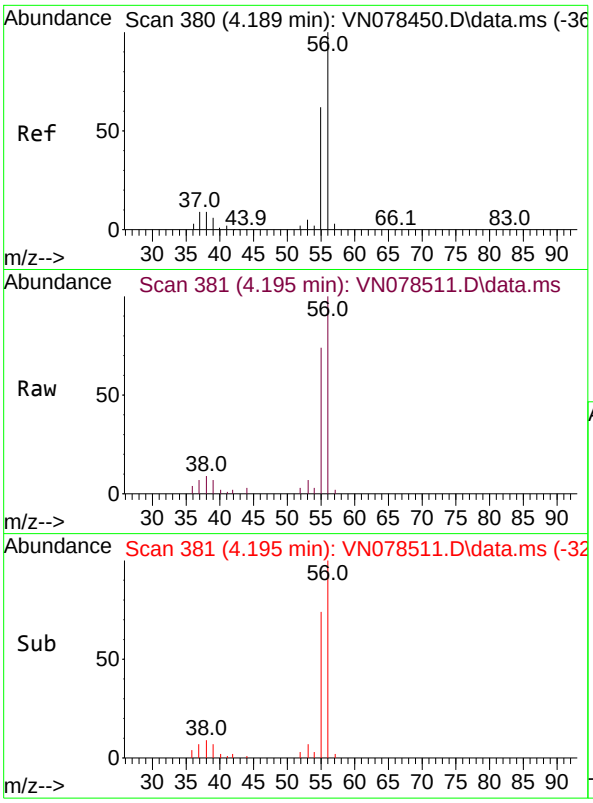


#12
1,1-Dichloroethene
Concen: 19.609 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 96 Resp: 92900

Ion	Ratio	Lower	Upper
96	100		
61	146.3	112.7	169.1
98	67.0	51.2	76.8

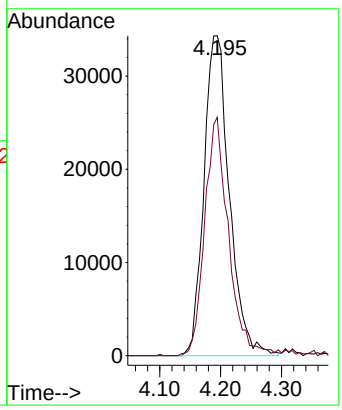




#13
Acrolein
Concen: 109.183 ug/l
RT: 4.195 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 56 Resp: 9970

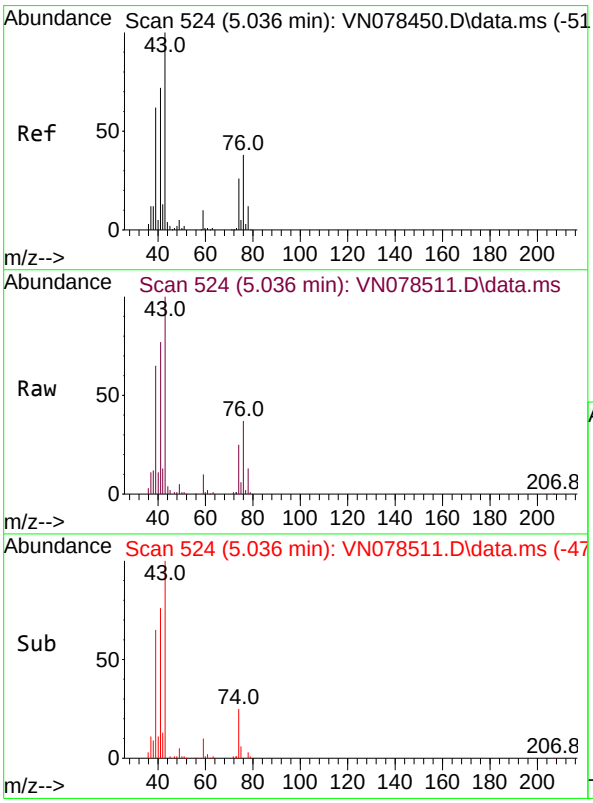
Ion	Ratio	Lower	Upper
56	100		
55	69.5	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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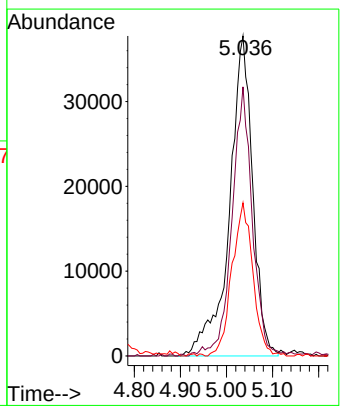
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

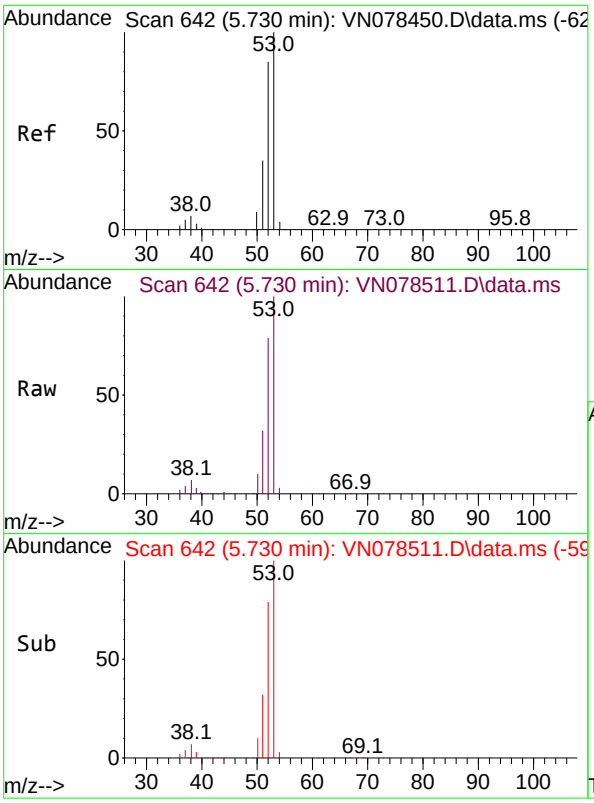


#14
Allyl chloride
Concen: 20.546 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 41 Resp: 133010

Ion	Ratio	Lower	Upper
41	100		
39	71.9	58.8	88.2
76	42.9	39.1	58.7

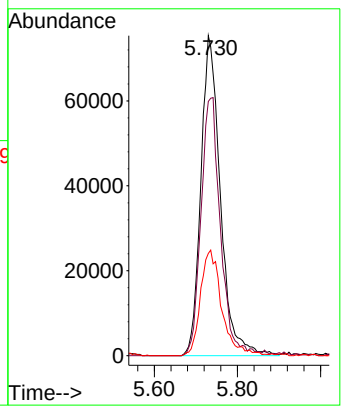




#15
Acrylonitrile
Concen: 104.993 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 53 Resp: 24623

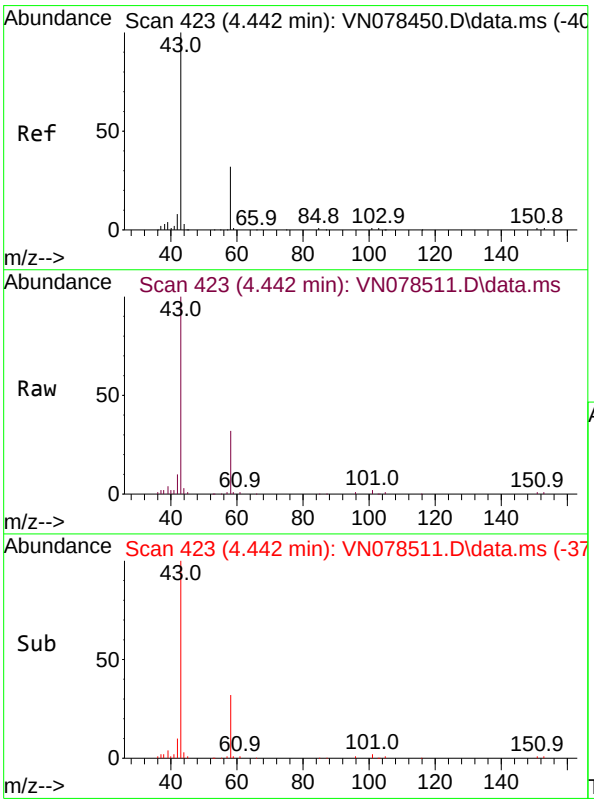
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.3	97.9
51	35.8	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

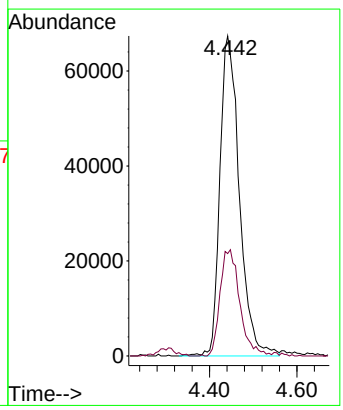
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

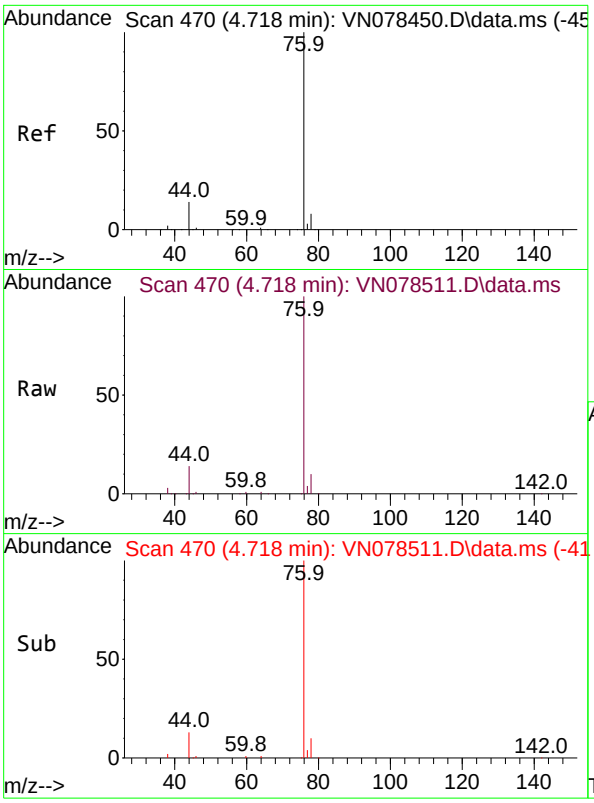


#16
Acetone
Concen: 110.675 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 43 Resp: 207517

Ion	Ratio	Lower	Upper
43	100		
58	31.8	28.0	42.0

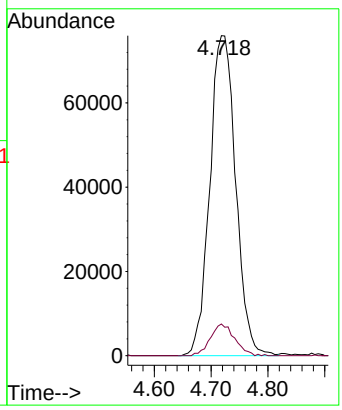




#17
Carbon Disulfide
Concen: 17.563 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 76 Resp: 24061

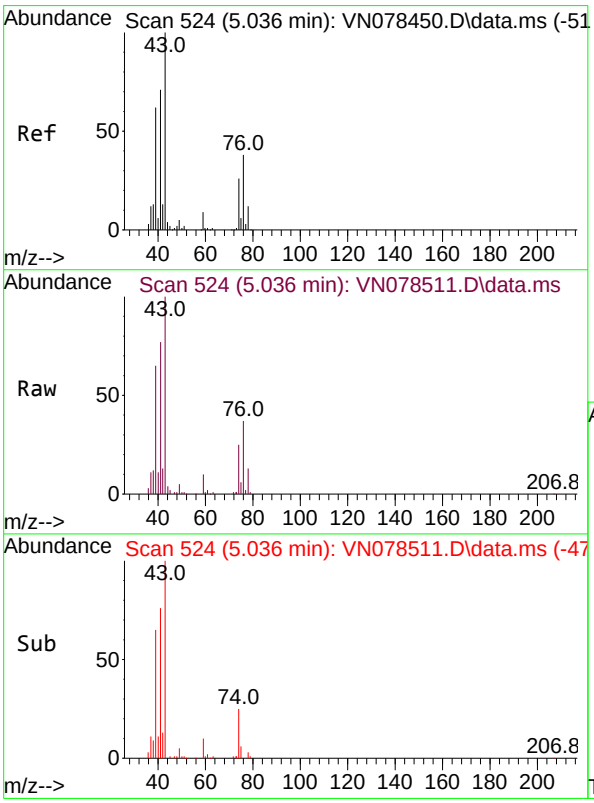
Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.4	11.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

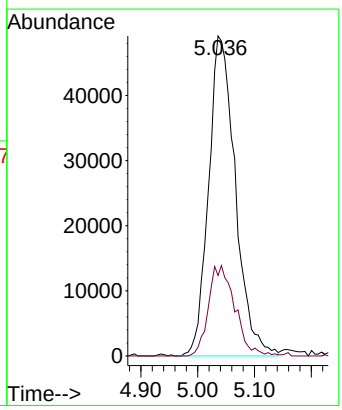
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

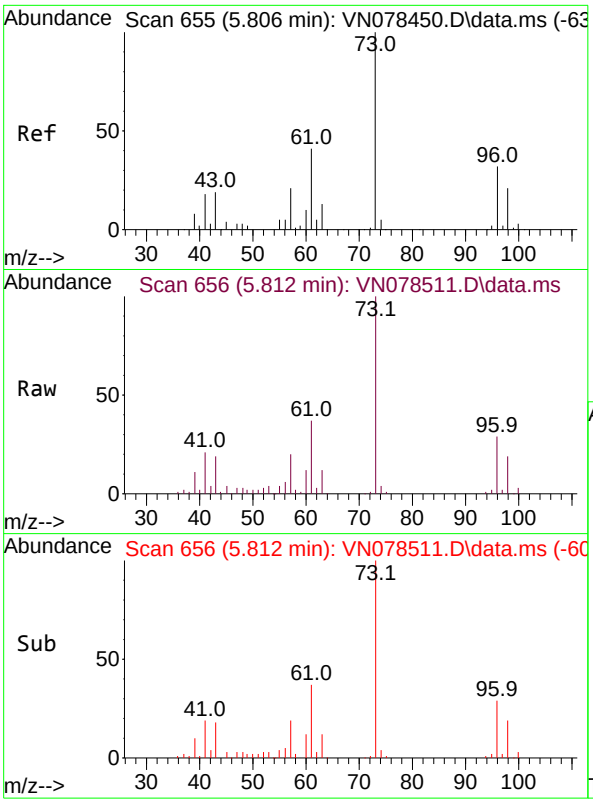


#18
Methyl Acetate
Concen: 20.244 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 43 Resp: 160684

Ion	Ratio	Lower	Upper
43	100		
74	27.9	26.2	39.4

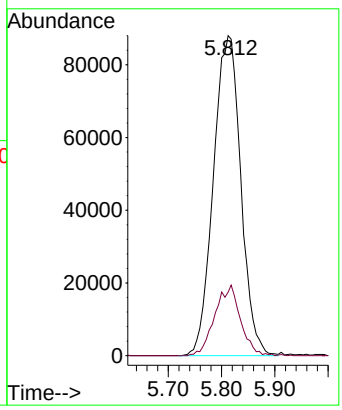




#19
Methyl tert-butyl Ether
Concen: 20.158 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 73 Resp: 31467

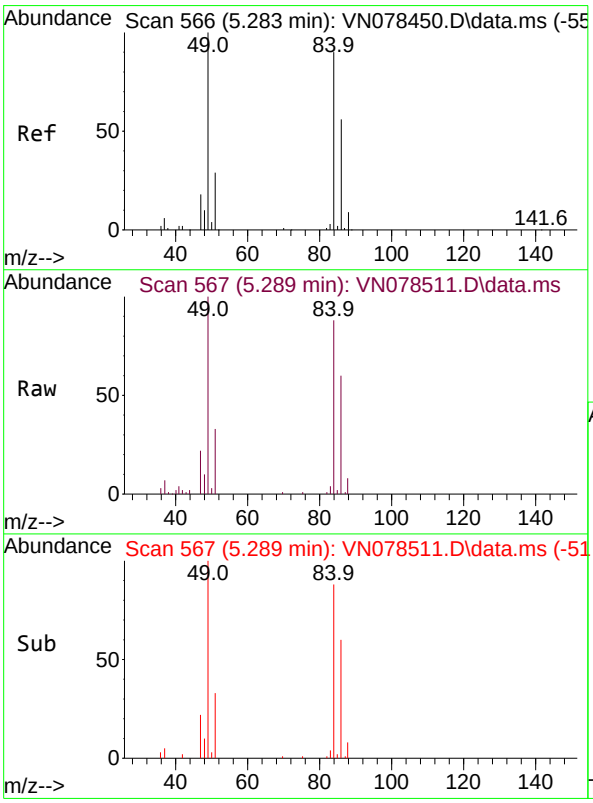
Ion	Ratio	Lower	Upper
73	100		
57	19.8	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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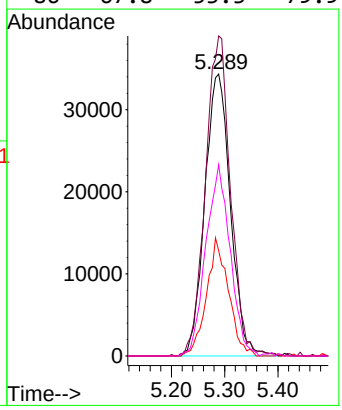
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

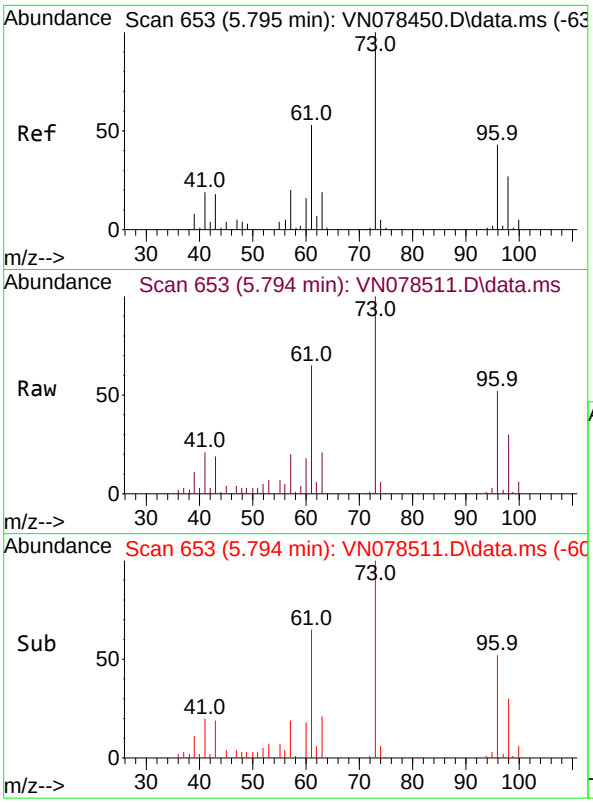


#20
Methylene Chloride
Concen: 20.639 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 84 Resp: 114862

Ion	Ratio	Lower	Upper
84	100		
49	113.5	79.7	119.5
51	37.3	25.2	37.8
86	67.8	53.3	79.9

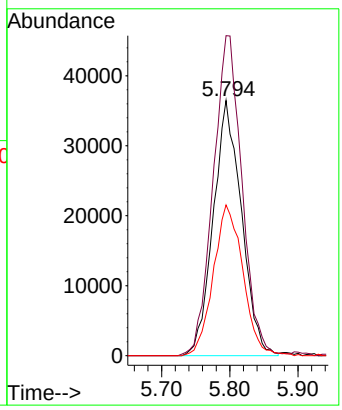




#21
trans-1,2-Dichloroethene
Concen: 19.663 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.001 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 96 Resp: 10497

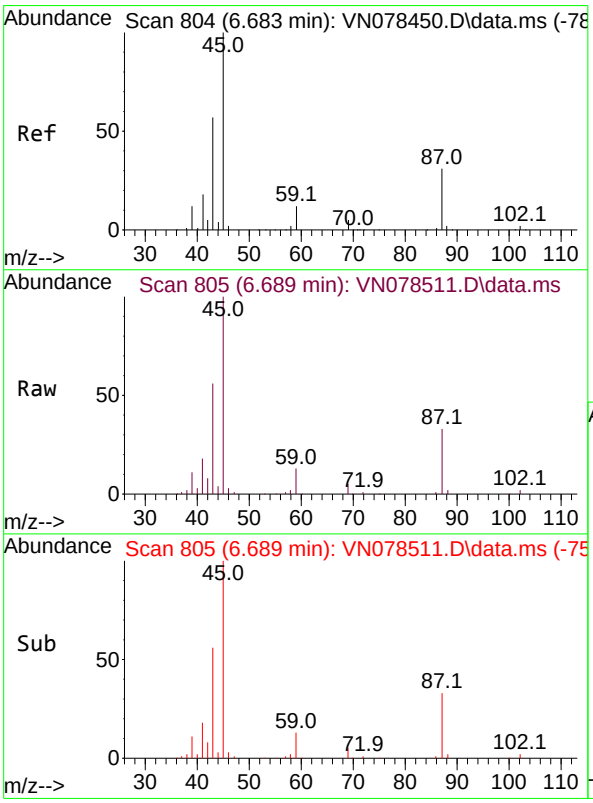
Ion	Ratio	Lower	Upper
96	100		
61	125.4	90.1	135.1
98	59.1	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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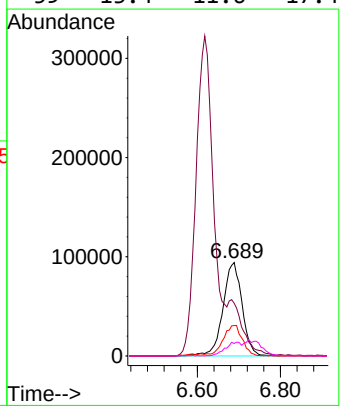
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

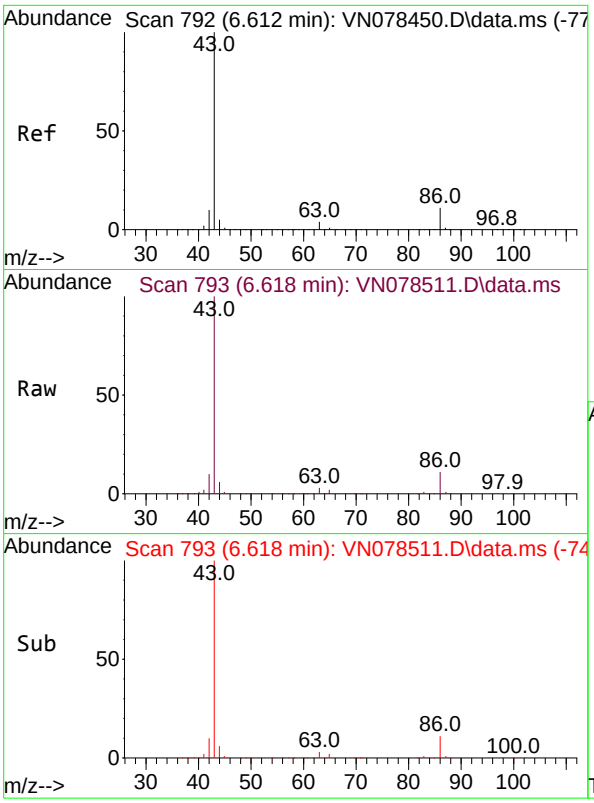


#22
Diisopropyl ether
Concen: 20.746 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 45 Resp: 300736

Ion	Ratio	Lower	Upper
45	100		
43	55.8	45.5	68.3
87	32.5	31.8	47.8
59	13.4	11.6	17.4





#23
Vinyl Acetate
Concen: 102.375 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

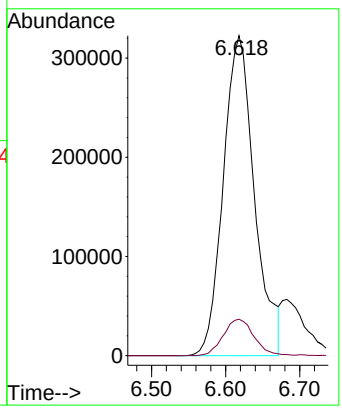
Tgt Ion: 43 Resp: 94344

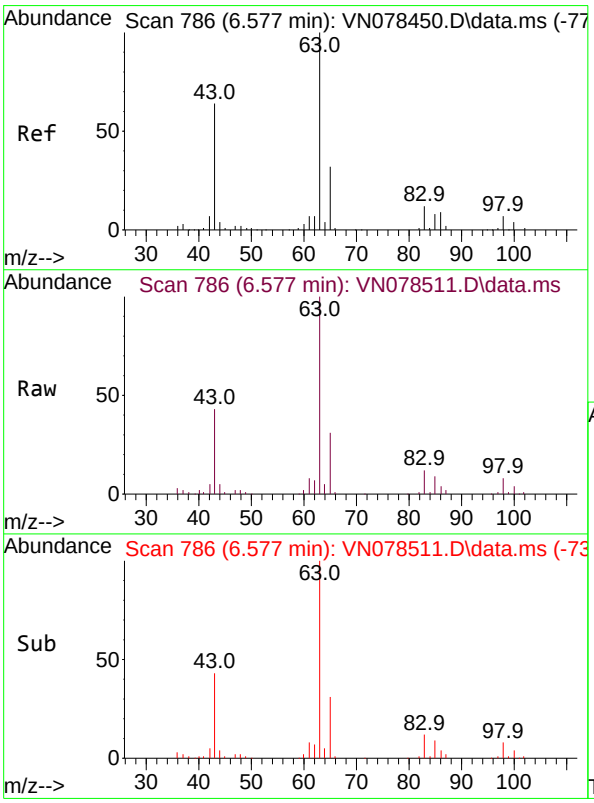
Ion	Ratio	Lower	Upper
43	100		
86	11.4	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

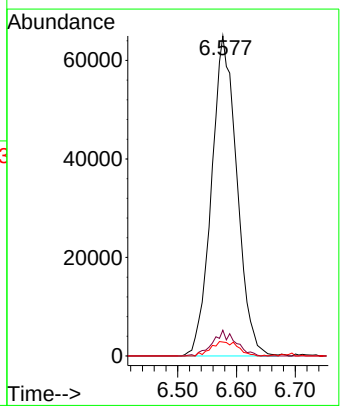


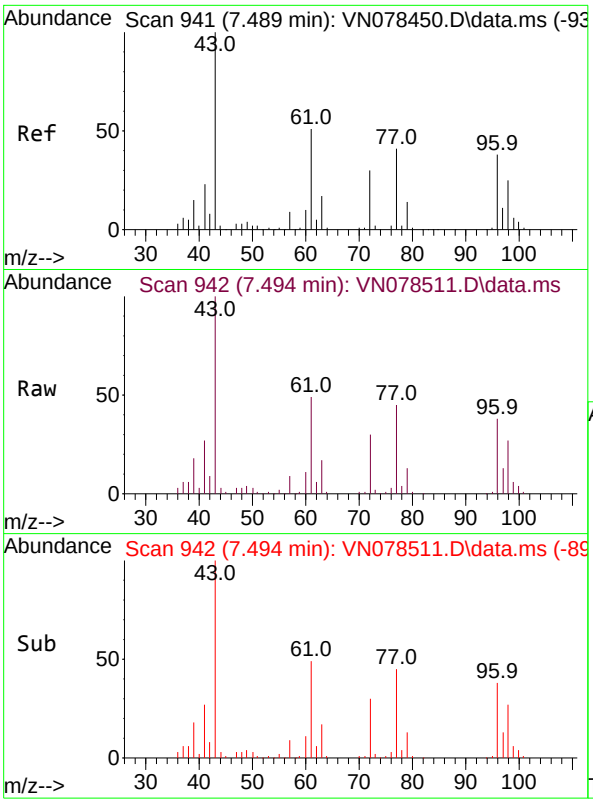


#24
1,1-Dichloroethane
Concen: 20.004 ug/l
RT: 6.577 min Scan# 786
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 63 Resp: 195397

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.9	11.7
100	4.4	2.5	7.4





#25
2-Butanone
Concen: 107.427 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

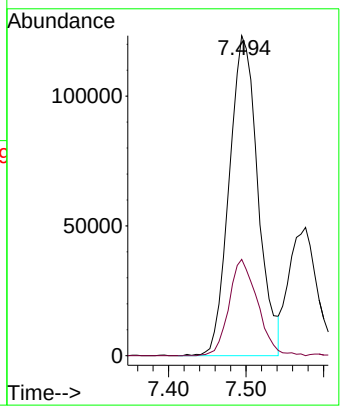
Tgt Ion: 43 Resp: 31707

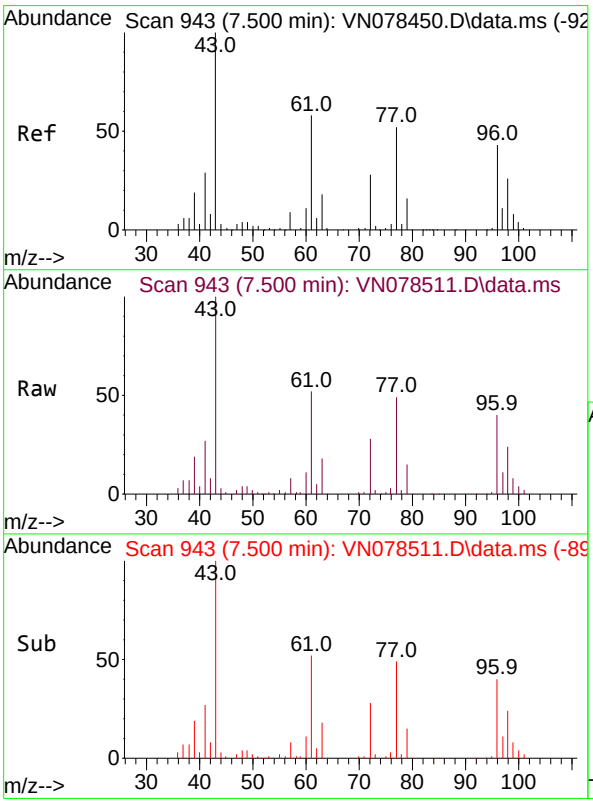
Ion	Ratio	Lower	Upper
43	100		
72	30.1	30.2	45.2

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

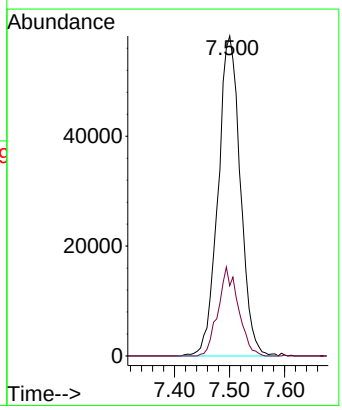


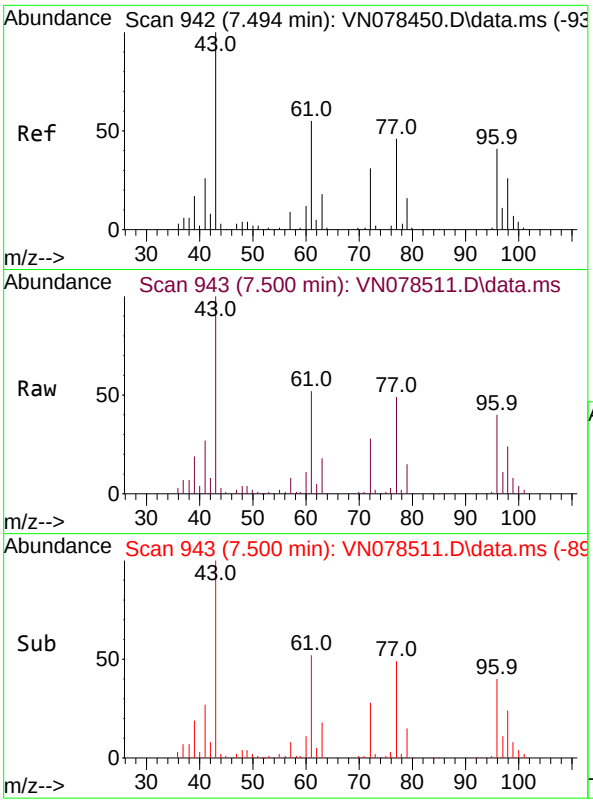


#26
2,2-Dichloropropane
Concen: 20.494 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 77 Resp: 163727

Ion	Ratio	Lower	Upper
77	100		
97	25.3	11.2	33.6

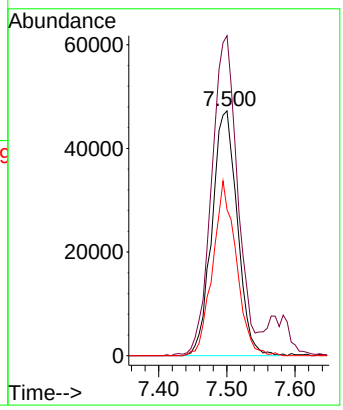




#27
cis-1,2-Dichloroethene
Concen: 19.778 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 96 Resp: 12215

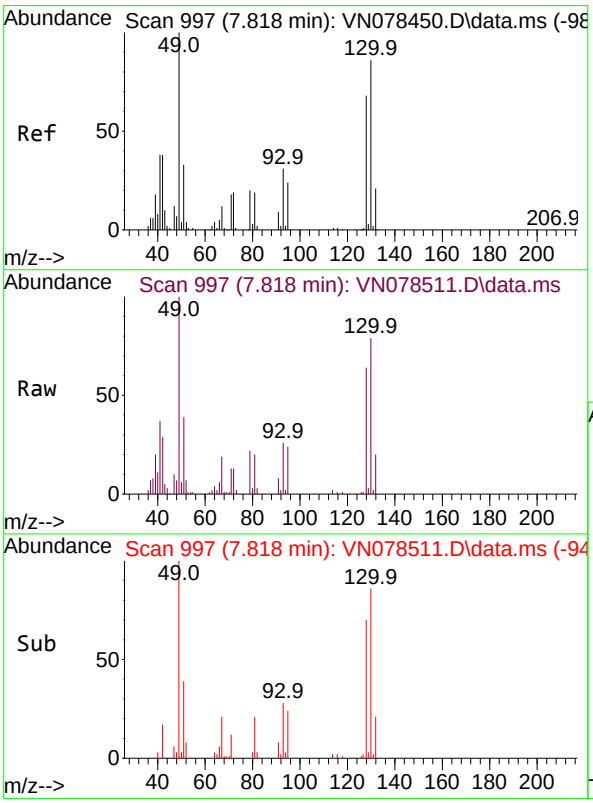
Ion	Ratio	Lower	Upper
96	100		
61	134.9	0.0	255.2
98	66.3	0.0	128.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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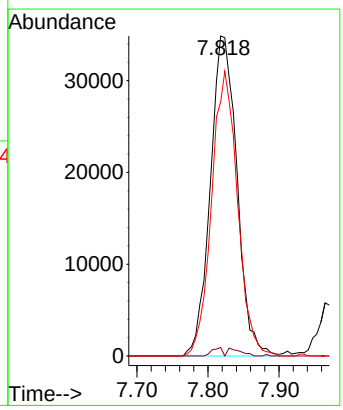
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

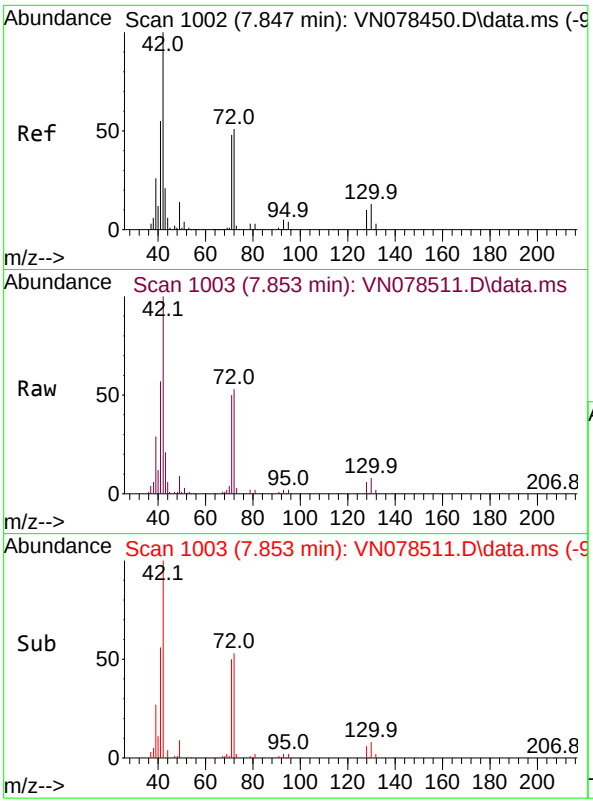


#28
Bromochloromethane
Concen: 19.745 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 49 Resp: 90840

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.8
130	0.0	75.3	112.9#





#29
Tetrahydrofuran
Concen: 100.323 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

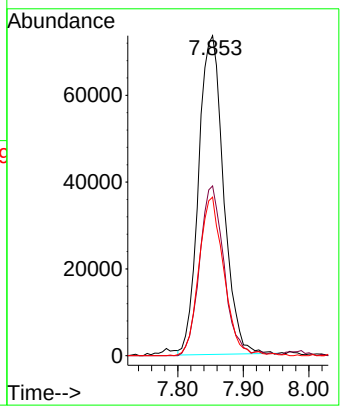
Tgt Ion: 42 Resp: 19429

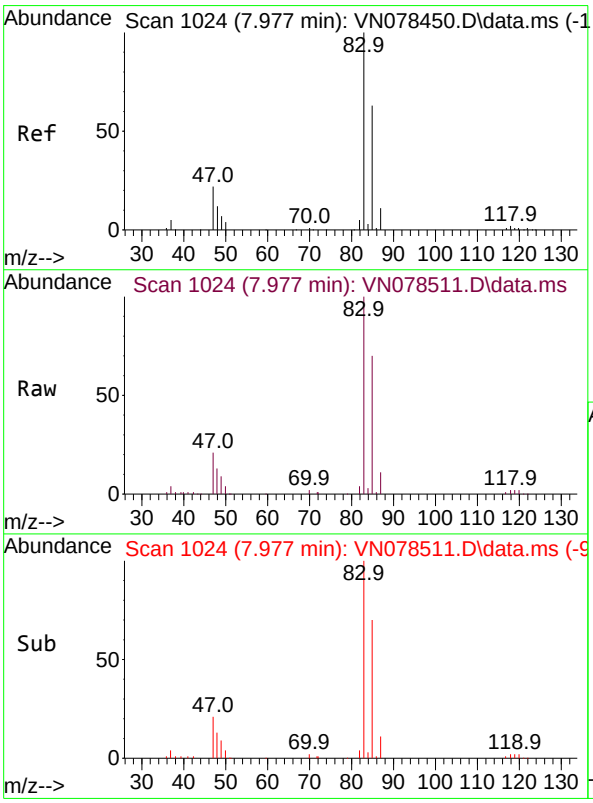
Ion	Ratio	Lower	Upper
42	100		
72	52.4	49.8	74.6
71	49.6	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

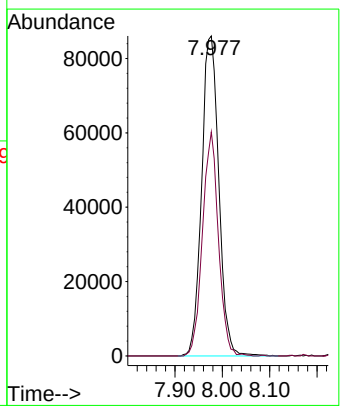


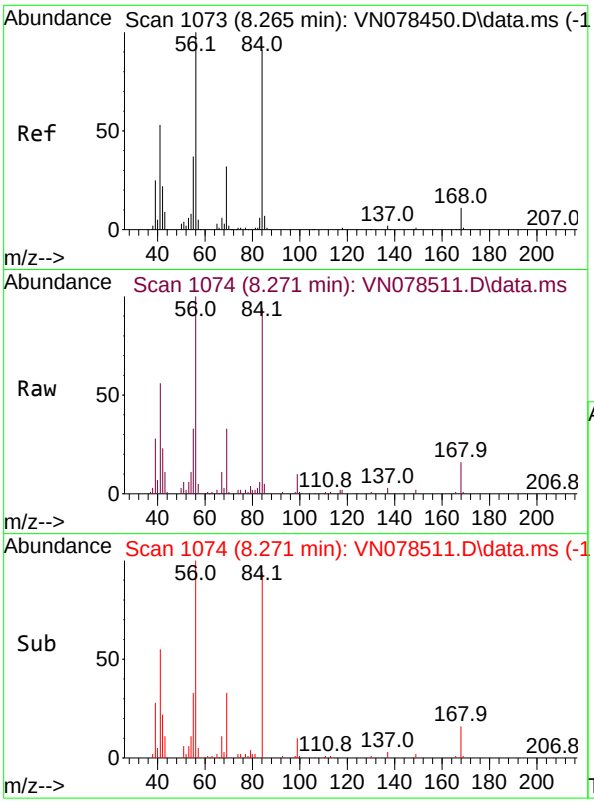


#30
Chloroform
Concen: 21.289 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 83 Resp: 216497

Ion	Ratio	Lower	Upper
83	100		
85	70.0	55.4	83.0

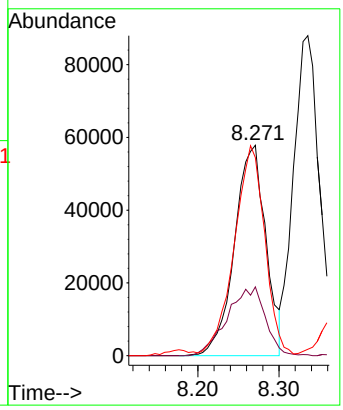




#31
Cyclohexane
Concen: 19.088 ug/l
RT: 8.271 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 56 Resp: 15528

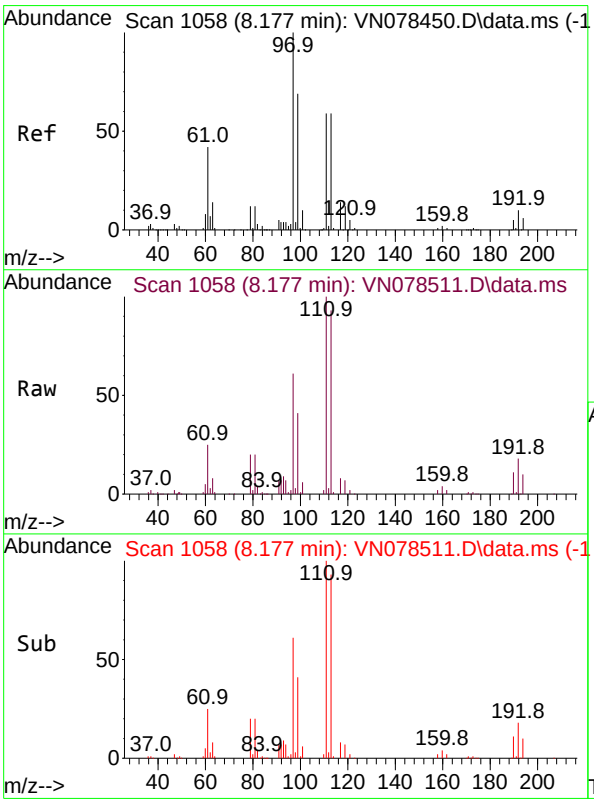
Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.8	40.2
84	91.3	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

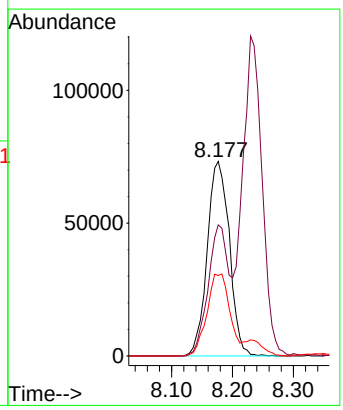
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

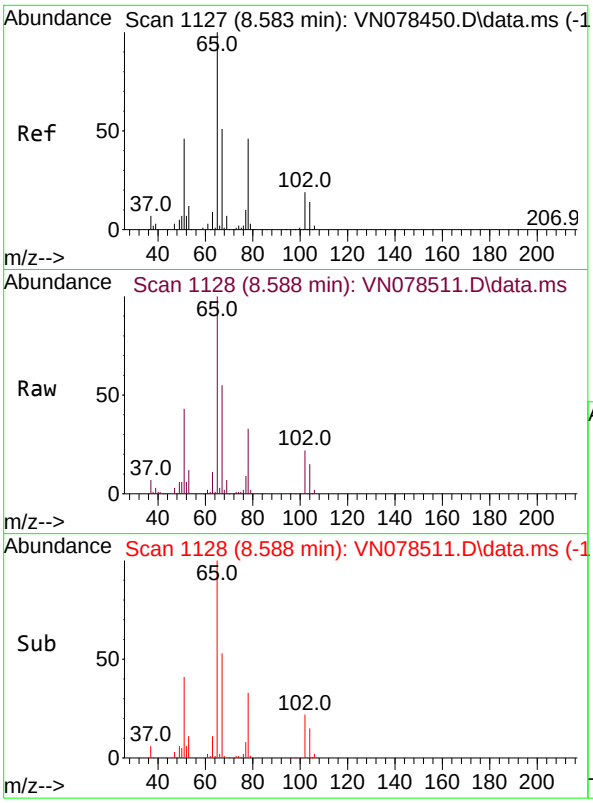


#32
1,1,1-Trichloroethane
Concen: 20.296 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 97 Resp: 185049

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.3	75.5
61	44.3	34.7	52.1

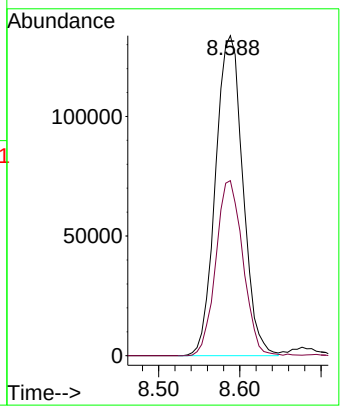




#33
1,2-Dichloroethane-d4
Concen: 51.994 ug/l
RT: 8.588 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 65 Resp: 31297

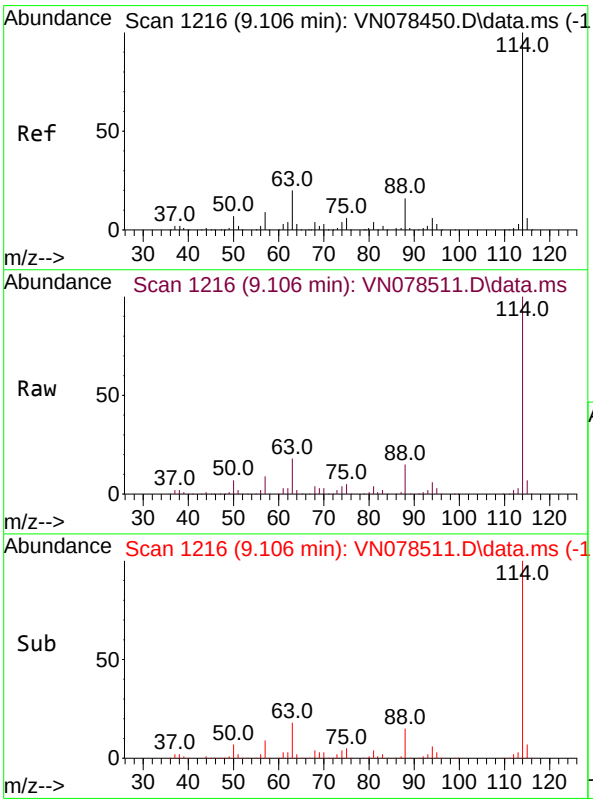
Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

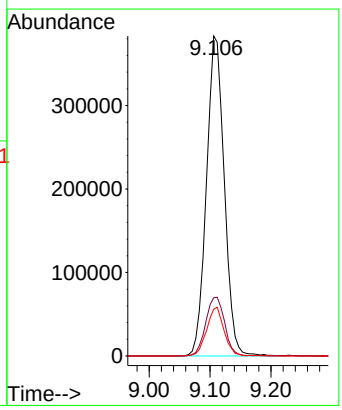
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

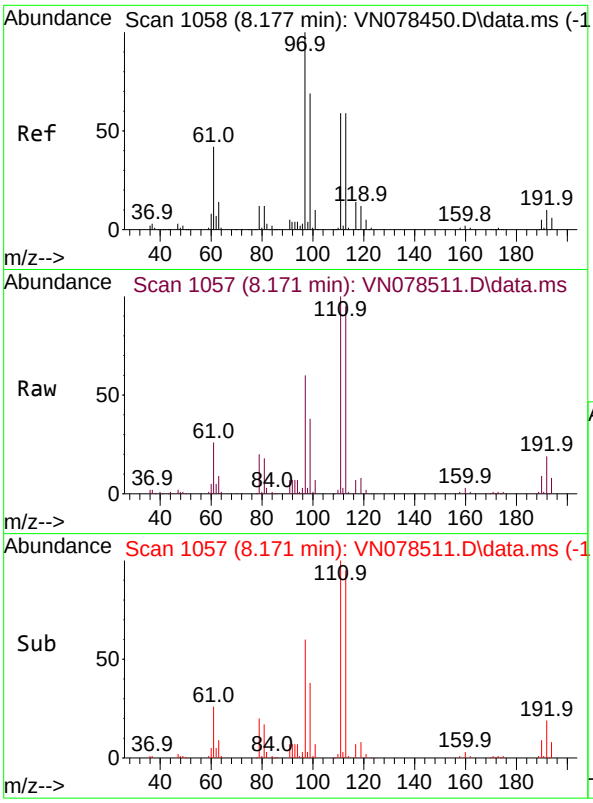


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:114 Resp: 779605

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	36.4
88	14.6	0.0	30.6

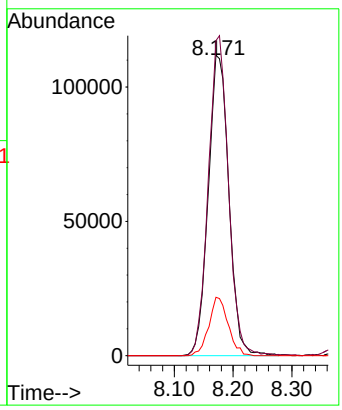




#35
Dibromofluoromethane
Concen: 51.539 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:113 Resp: 27275

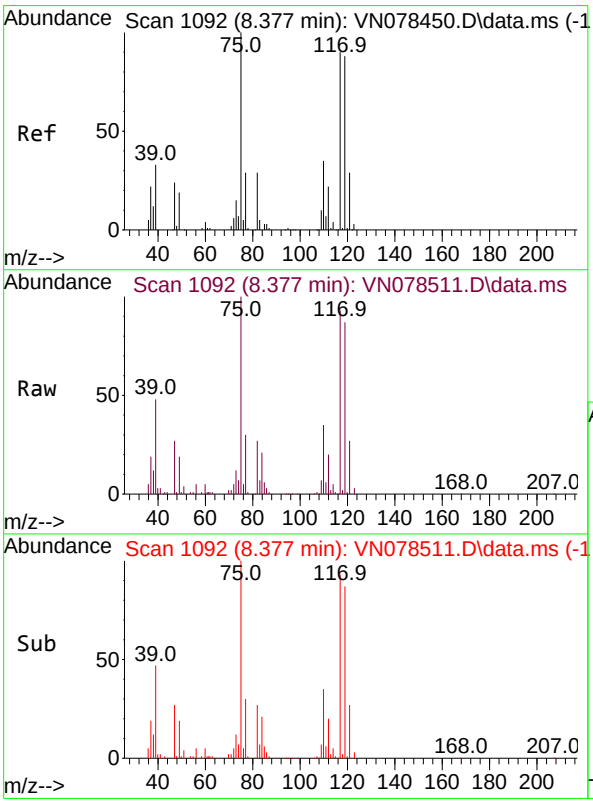
Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	123.8
192	18.2	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

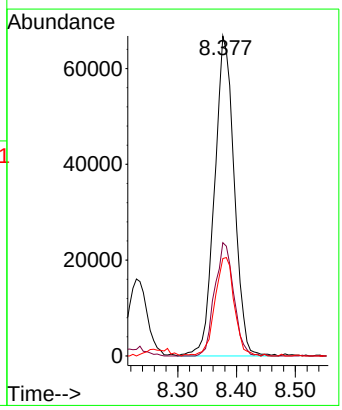
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

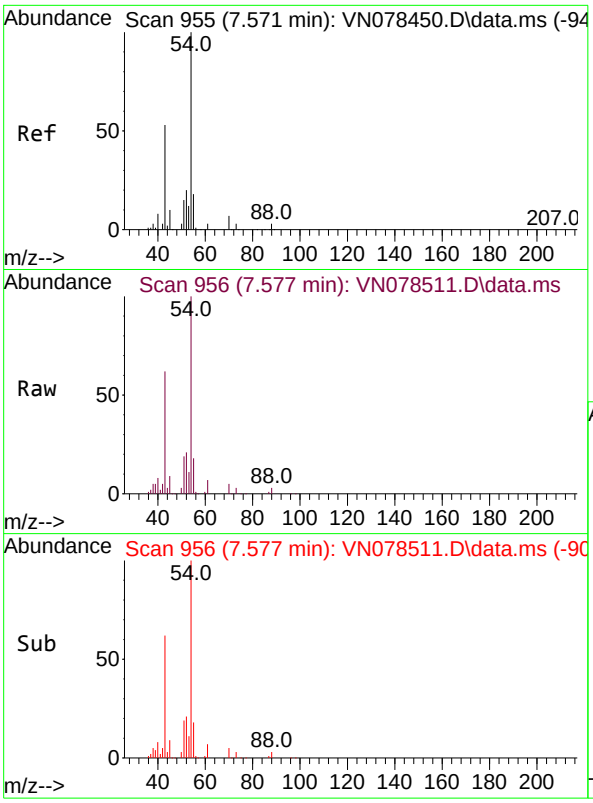


#36
1,1-Dichloropropene
Concen: 20.295 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 75 Resp: 155087

Ion	Ratio	Lower	Upper
75	100		
110	34.3	19.1	57.3
77	30.4	25.0	37.4





#37
Ethyl Acetate
Concen: 19.991 ug/l
RT: 7.577 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

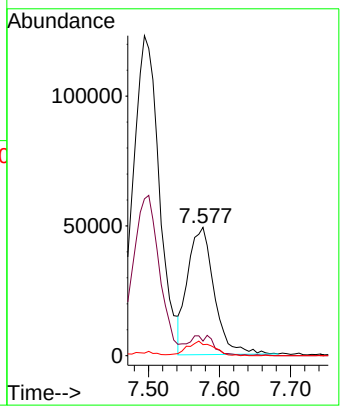
Tgt Ion: 43 Resp: 12734

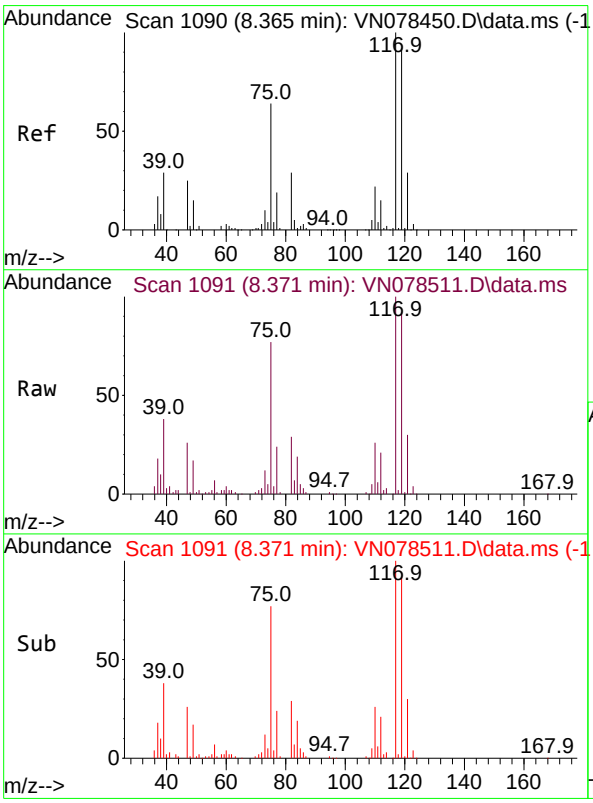
Ion	Ratio	Lower	Upper
43	100		
61	14.1	13.2	19.8
70	11.3	11.3	16.9

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

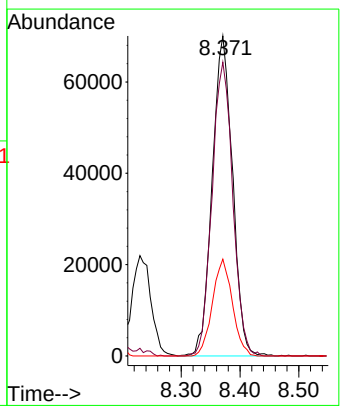


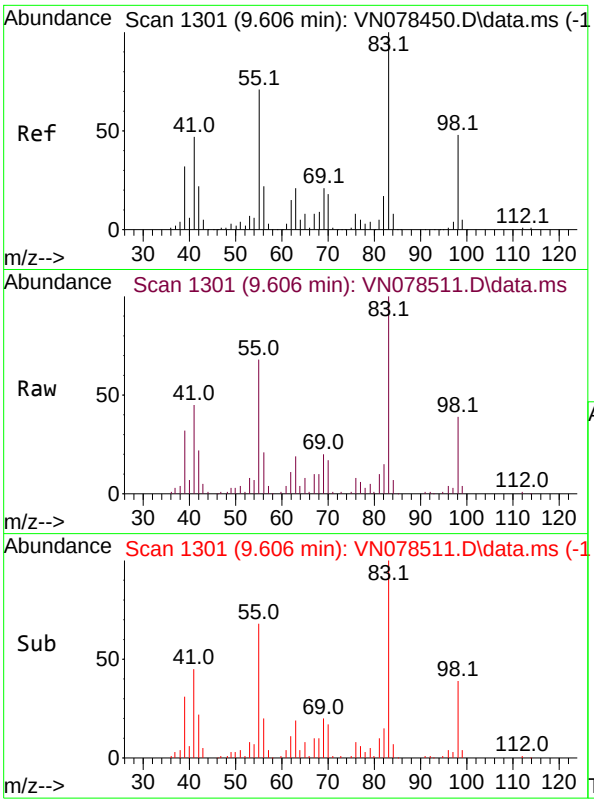


#38
Carbon Tetrachloride
Concen: 20.274 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:117 Resp: 168378

Ion	Ratio	Lower	Upper
117	100		
119	91.8	77.3	115.9
121	30.3	23.3	34.9

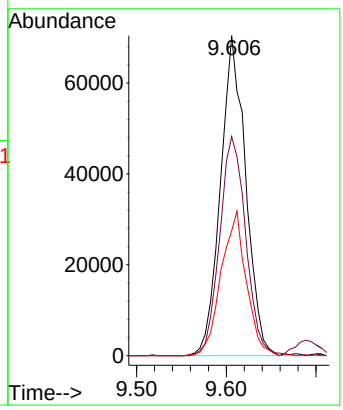




#39
Methylcyclohexane
Concen: 19.717 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 83 Resp: 13752

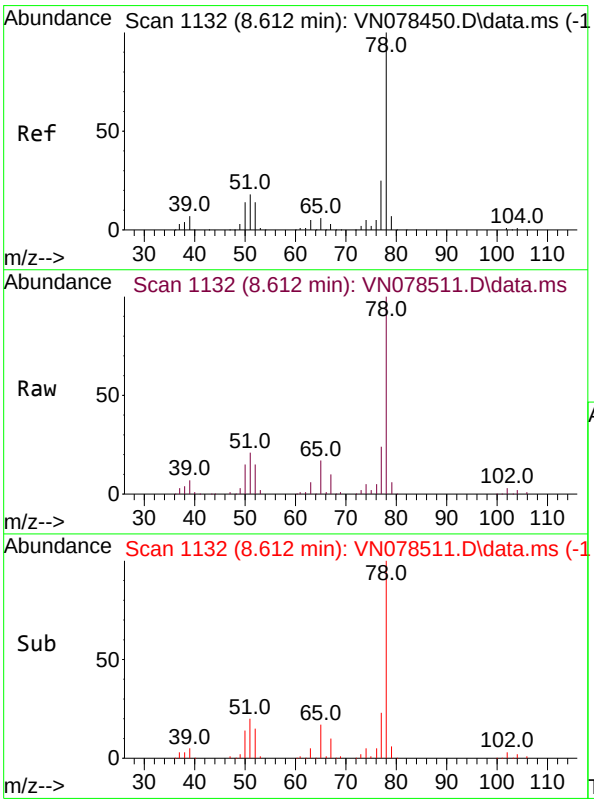
Ion	Ratio	Lower	Upper
83	100		
55	68.5	49.1	73.7
98	39.0	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

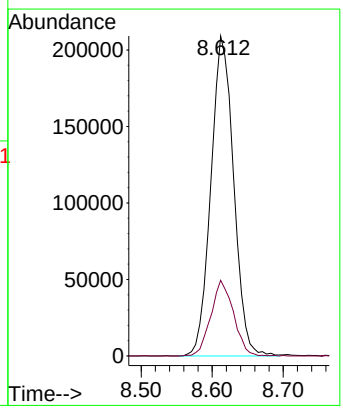
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

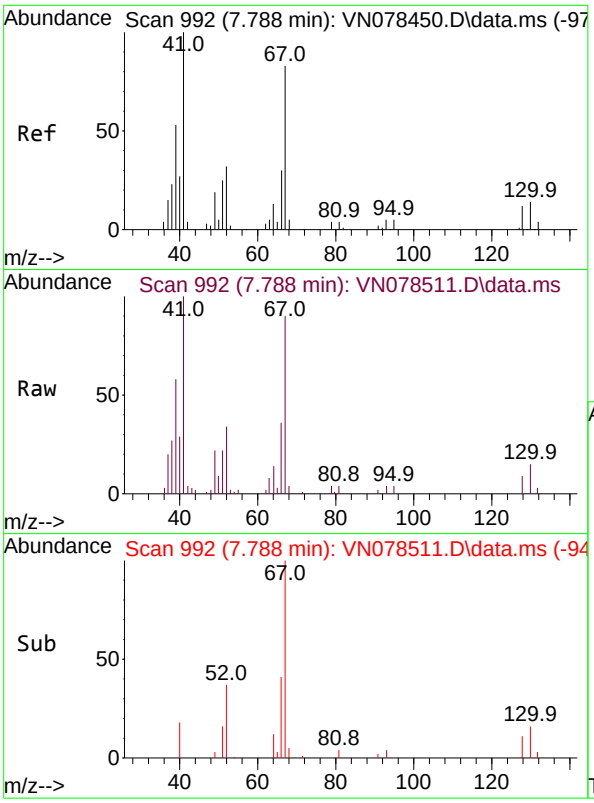


#40
Benzene
Concen: 20.556 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 78 Resp: 465357

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

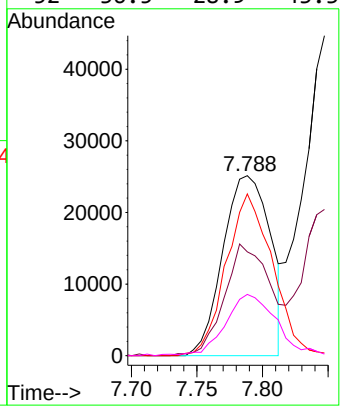




#41
Methacrylonitrile
Concen: 19.449 ug/l
RT: 7.788 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 41 Resp: 6315

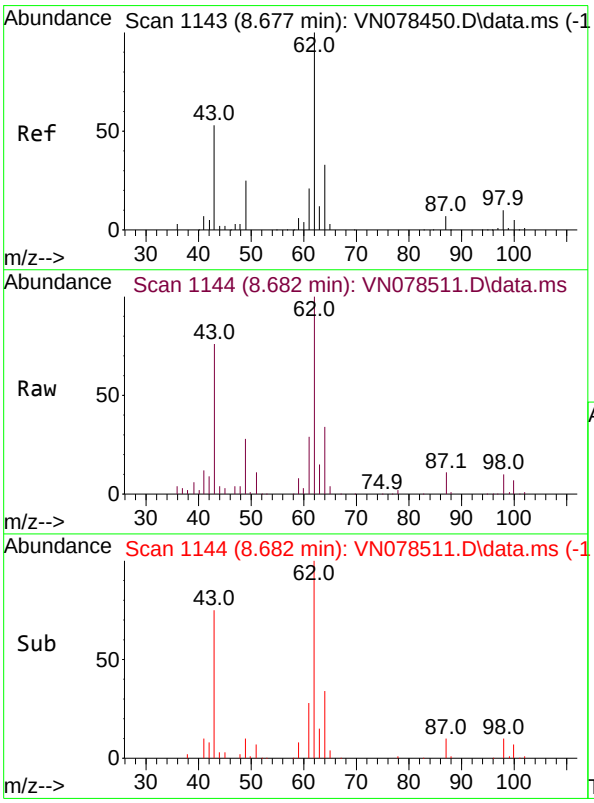
Ion	Ratio	Lower	Upper
41	100		
39	61.7	42.6	64.0
67	88.2	77.5	116.3
52	36.5	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

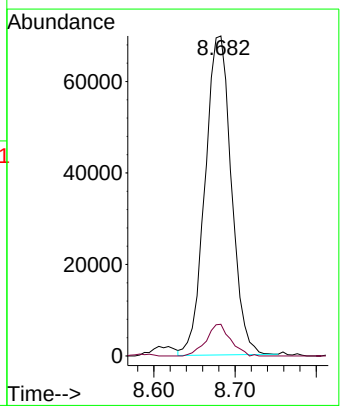
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

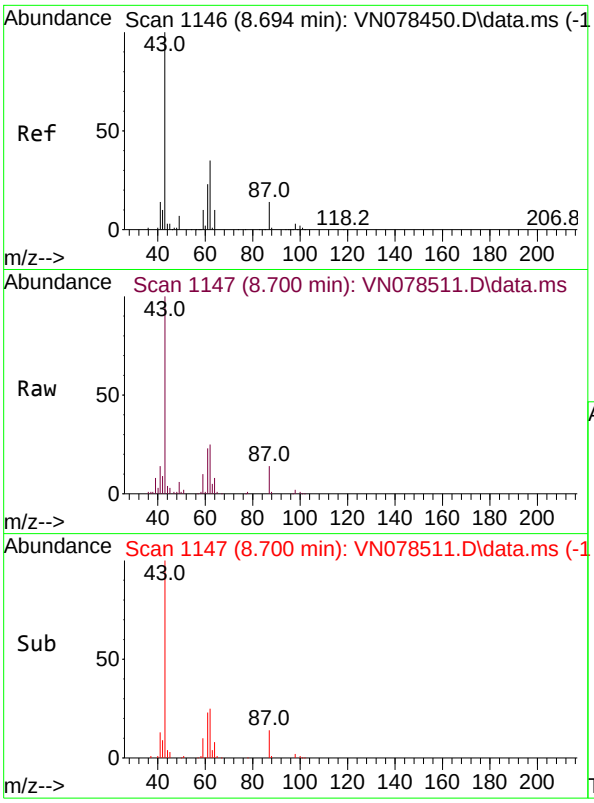


#42
1,2-Dichloroethane
Concen: 20.360 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 62 Resp: 156775

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8

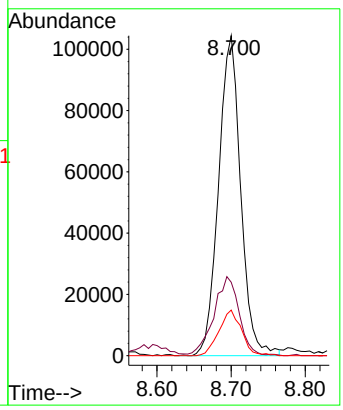




#43
Isopropyl Acetate
Concen: 20.671 ug/l
RT: 8.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 43 Resp: 21678

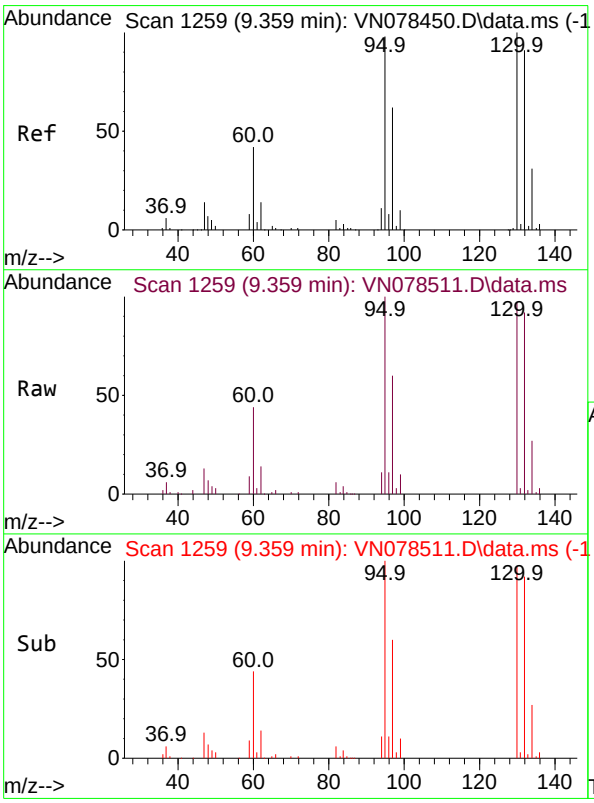
Ion	Ratio	Lower	Upper
43	100		
61	27.1	24.7	37.1
87	14.6	14.6	21.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

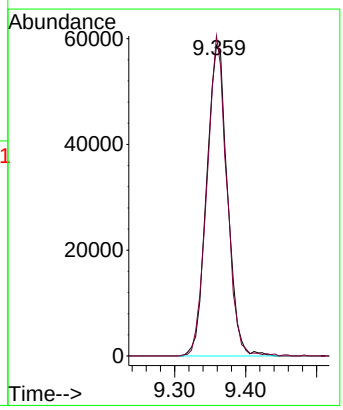
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

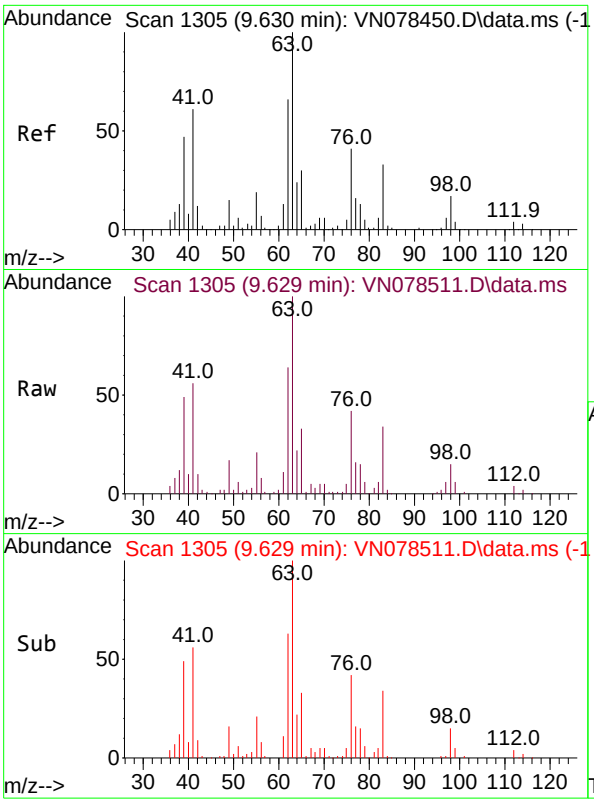


#44
Trichloroethene
Concen: 19.571 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:130 Resp: 119411

Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	204.6

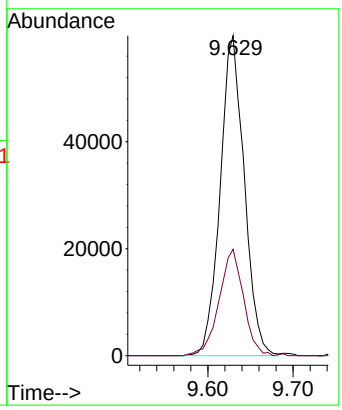




#45
1,2-Dichloropropane
Concen: 20.502 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 63 Resp: 11755

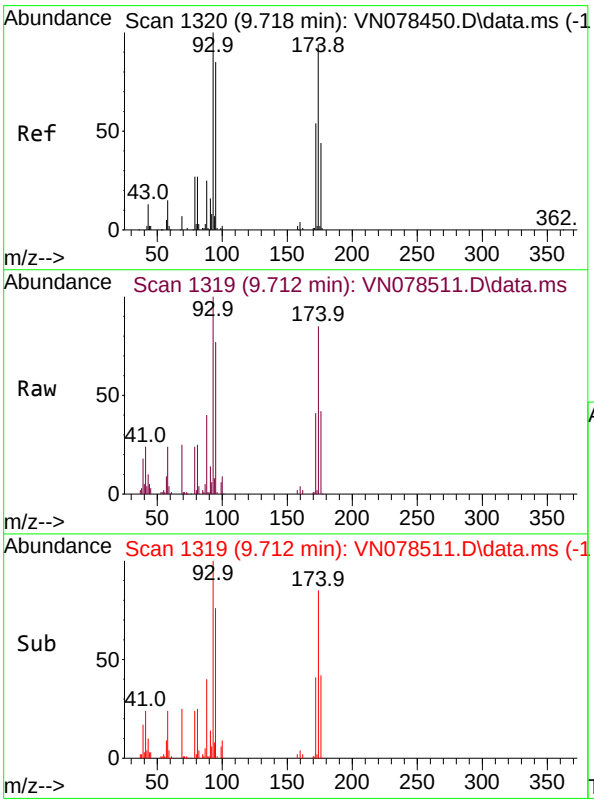
Ion	Ratio	Lower	Upper
63	100		
65	33.2	23.9	35.9



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

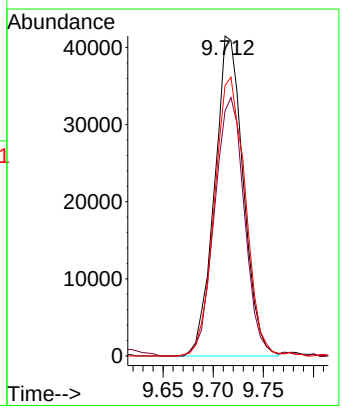
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

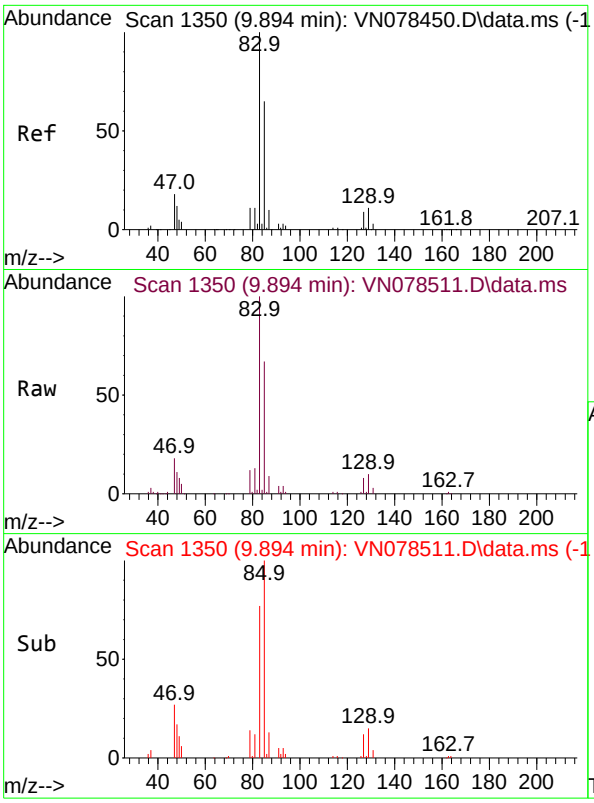


#46
Dibromomethane
Concen: 20.473 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 93 Resp: 82619

Ion	Ratio	Lower	Upper
93	100		
95	84.5	63.8	95.8
174	92.9	65.6	98.4





#47
Bromodichloromethane
Concen: 20.587 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

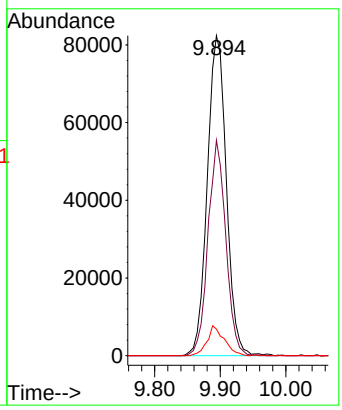
Tgt Ion: 83 Resp: 16654

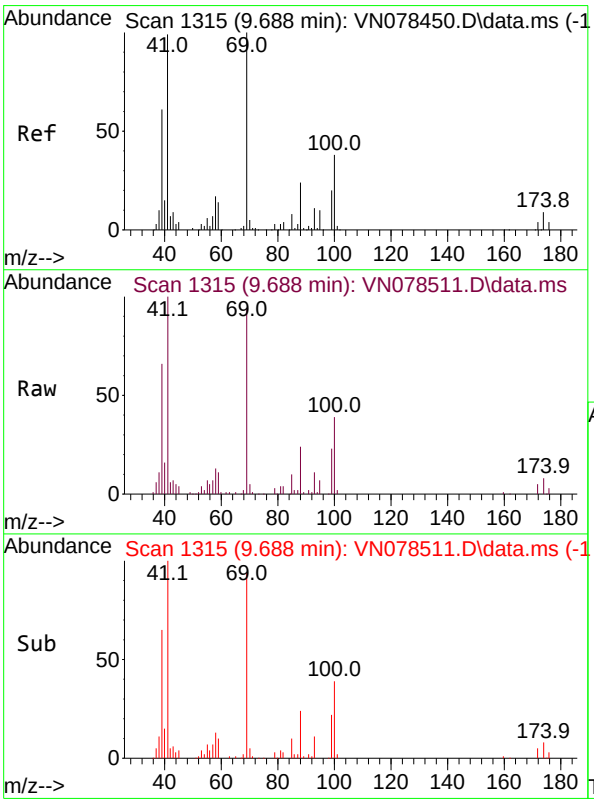
Ion	Ratio	Lower	Upper
83	100		
85	67.3	49.6	74.4
127	8.3	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

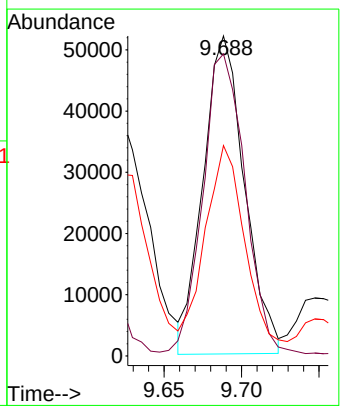


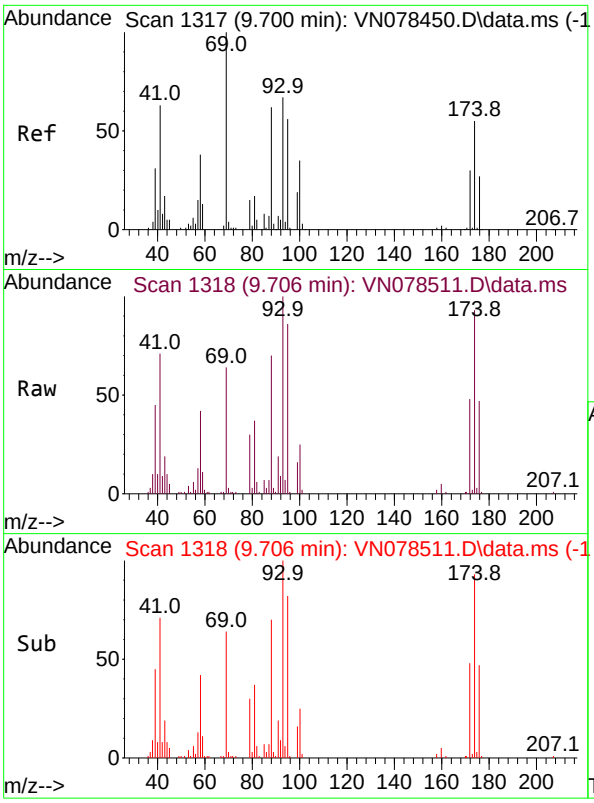


#48
Methyl methacrylate
Concen: 19.860 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 41 Resp: 96495

Ion	Ratio	Lower	Upper
41	100		
69	99.0	90.4	135.6
39	66.4	54.6	81.8

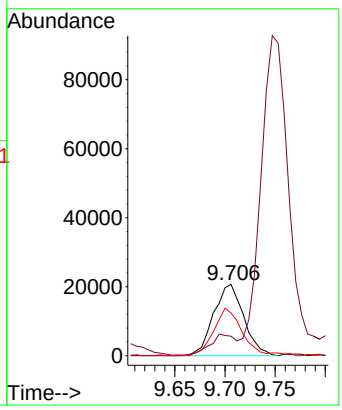




#49
1,4-Dioxane
Concen: 406.813 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 88 Resp: 4310

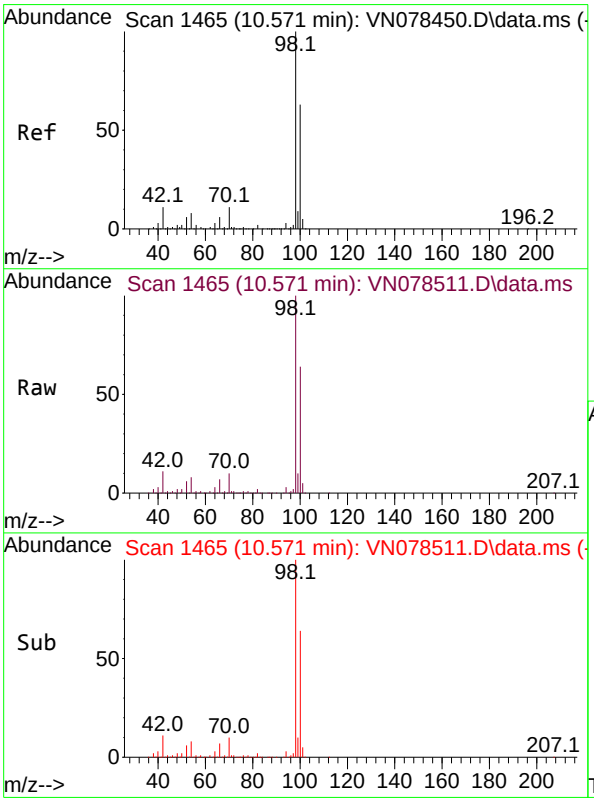
Ion	Ratio	Lower	Upper
88	100		
43	24.4	17.0	25.6
58	63.2	47.0	70.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

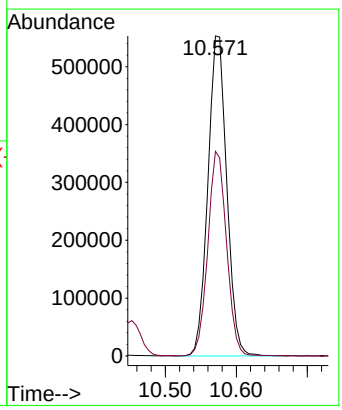
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

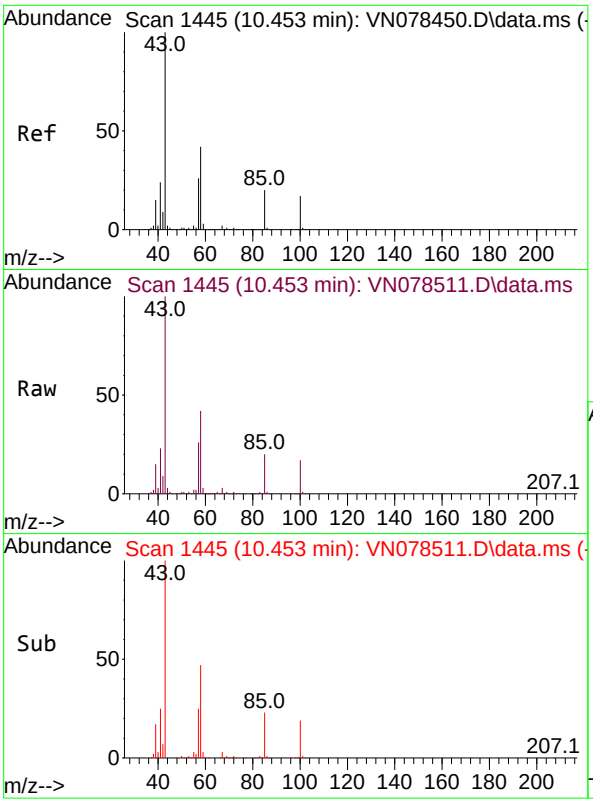


#50
Toluene-d8
Concen: 51.076 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 98 Resp: 1021138

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 105.280 ug/l
RT: 10.453 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

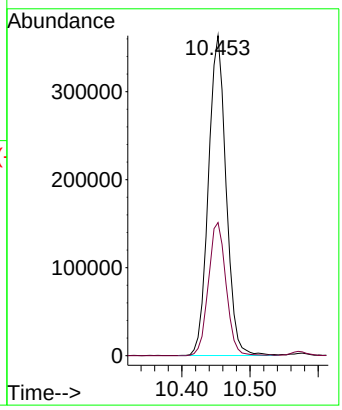
Tgt Ion: 43 Resp: 65674

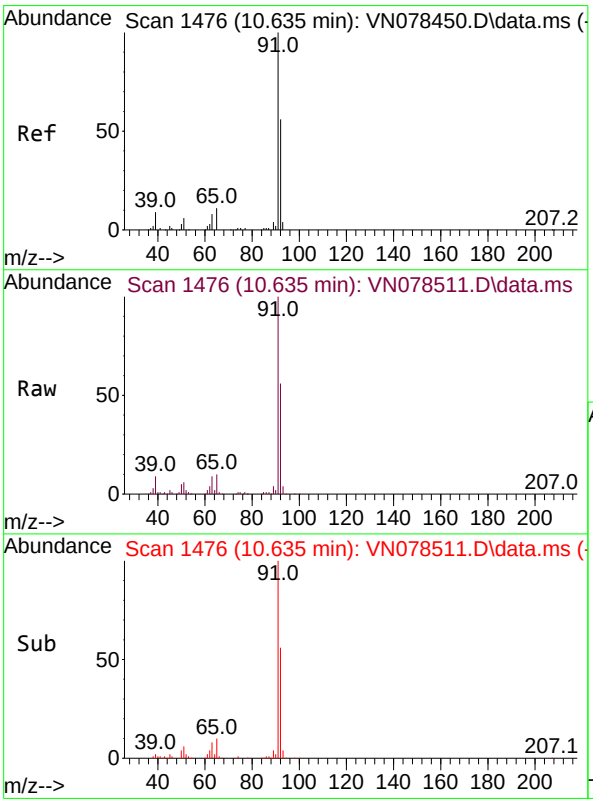
Ion	Ratio	Lower	Upper
43	100		
58	41.7	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

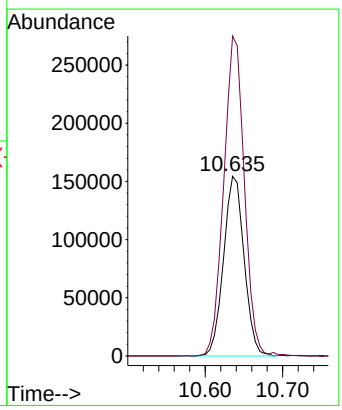


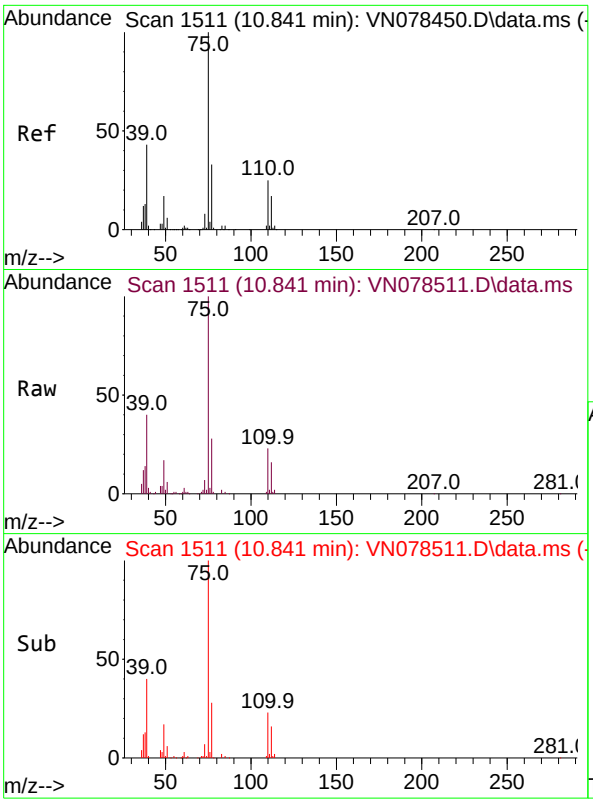


#52
Toluene
Concen: 20.340 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 92 Resp: 285381

Ion	Ratio	Lower	Upper
92	100		
91	178.7	137.4	206.0





#53
t-1,3-Dichloropropene
Concen: 20.512 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

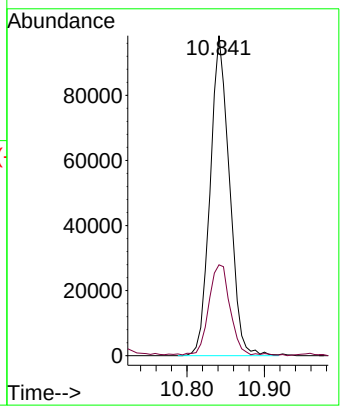
Tgt Ion: 75 Resp: 16999

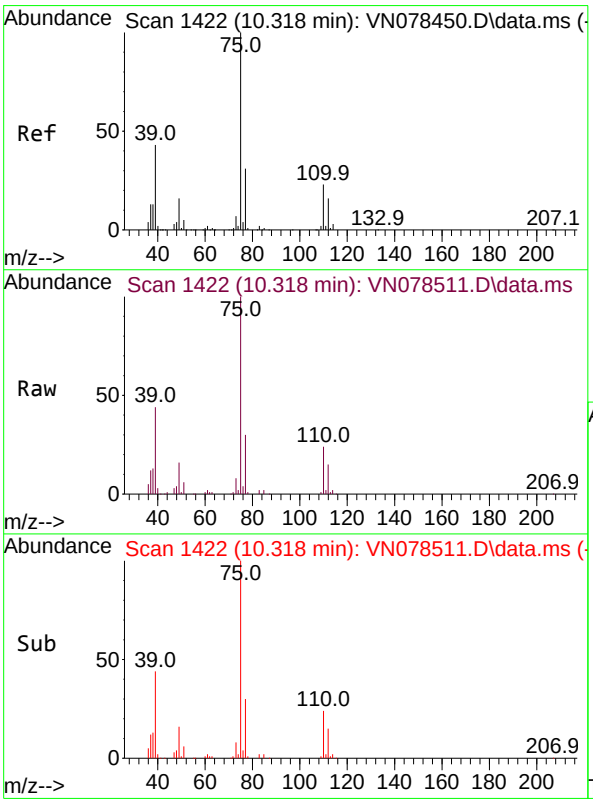
Ion	Ratio	Lower	Upper
75	100		
77	28.2	25.4	38.0

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

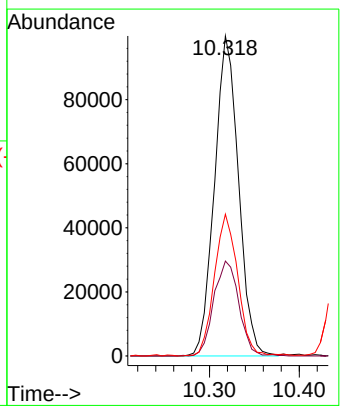


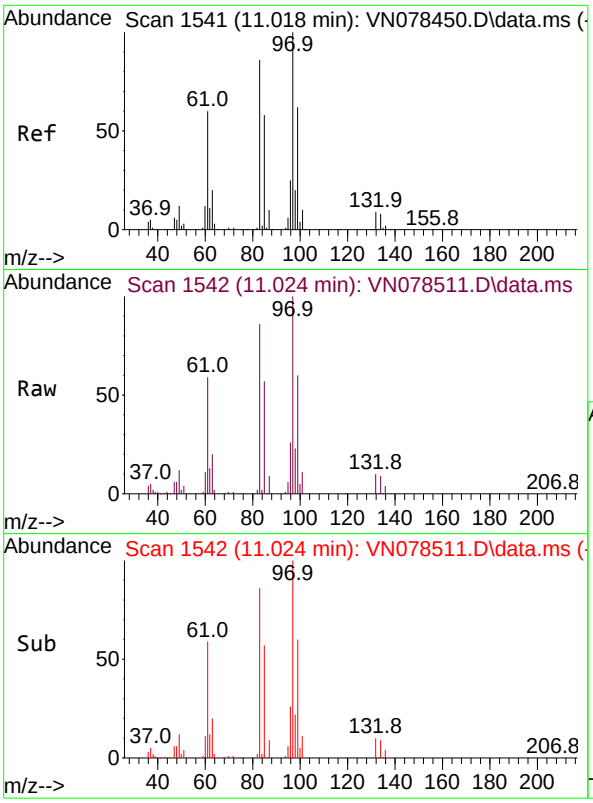


#54
cis-1,3-Dichloropropene
Concen: 21.017 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 75 Resp: 185661

Ion	Ratio	Lower	Upper
75	100		
77	29.6	26.1	39.1
39	44.3	31.6	47.4

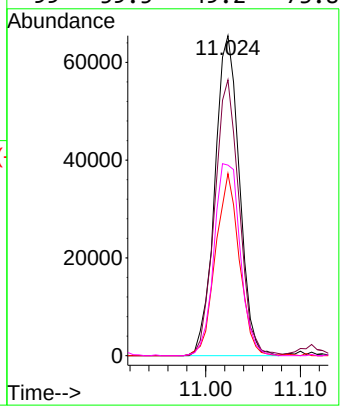




#55
1,1,2-Trichloroethane
Concen: 21.338 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 97 Resp: 11795

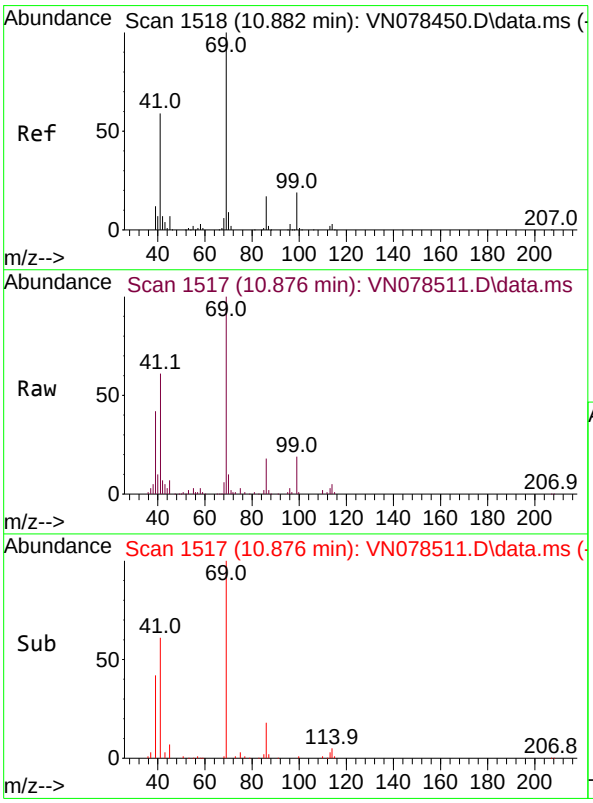
Ion	Ratio	Lower	Upper
97	100		
83	86.2	65.1	97.7
85	56.9	43.4	65.2
99	59.5	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

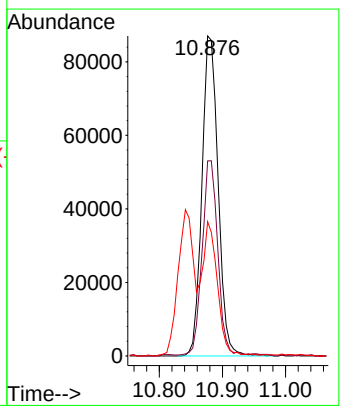
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

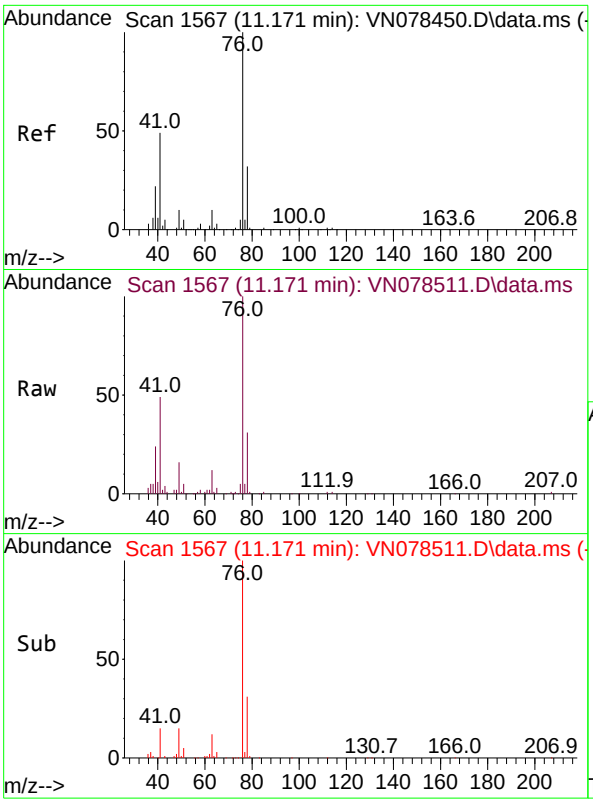


#56
Ethyl methacrylate
Concen: 20.080 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 69 Resp: 155173

Ion	Ratio	Lower	Upper
69	100		
41	58.5	39.6	59.4
39	38.8	28.6	43.0

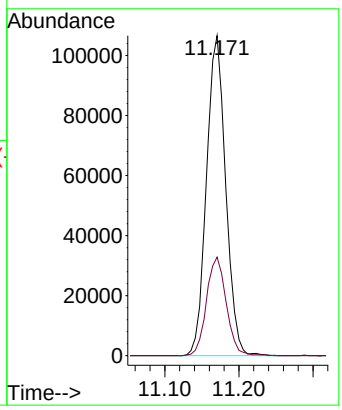




#57
1,3-Dichloropropane
Concen: 20.384 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 76 Resp: 19159

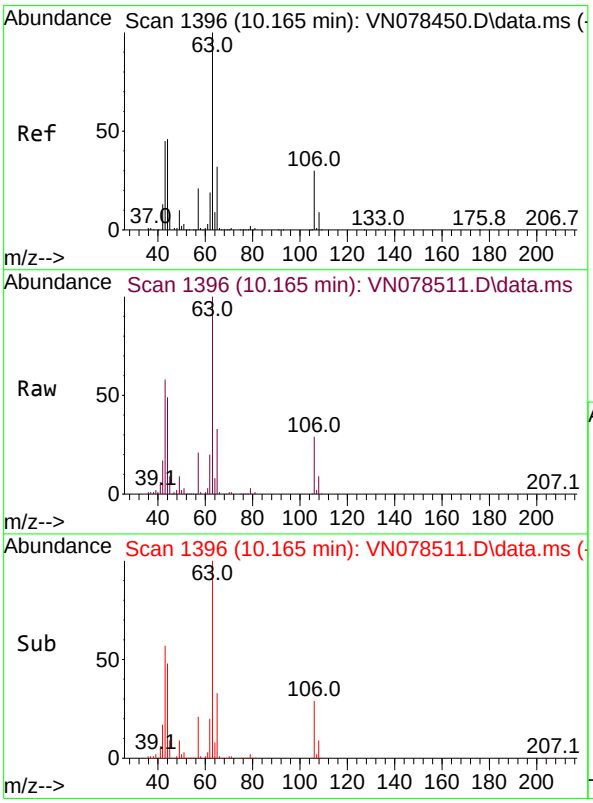
Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

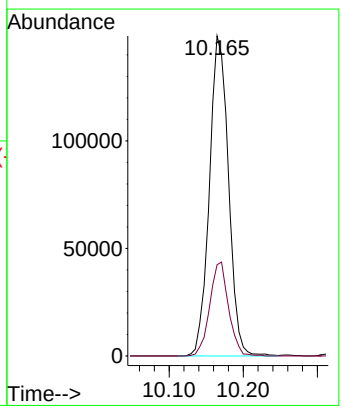
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

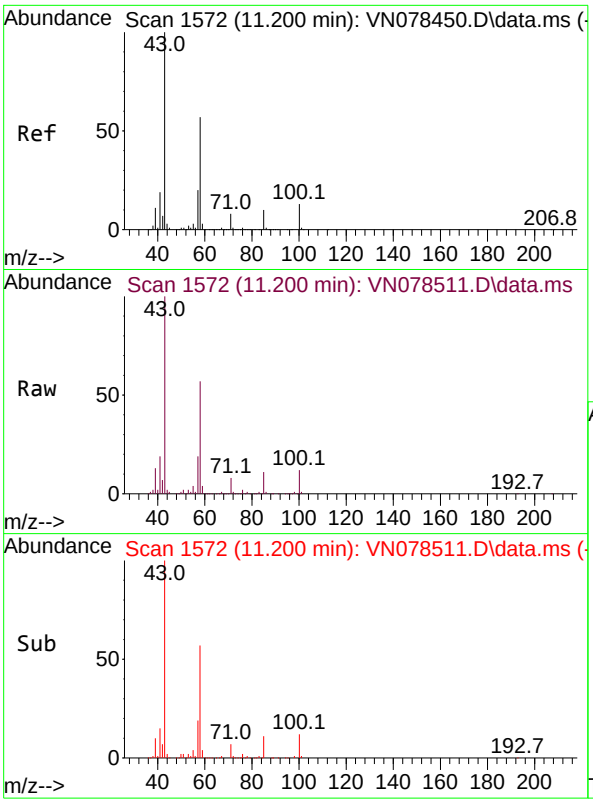


#58
2-Chloroethyl Vinyl ether
Concen: 96.836 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 63 Resp: 266678

Ion	Ratio	Lower	Upper
63	100		
106	28.8	26.2	39.4





#59
2-Hexanone
Concen: 105.381 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

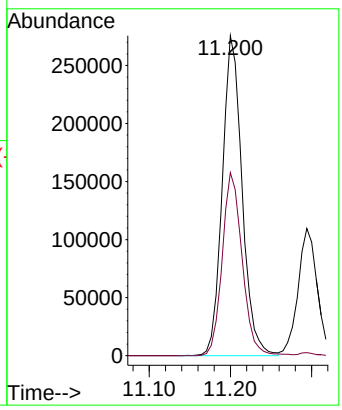
Tgt Ion: 43 Resp: 46720

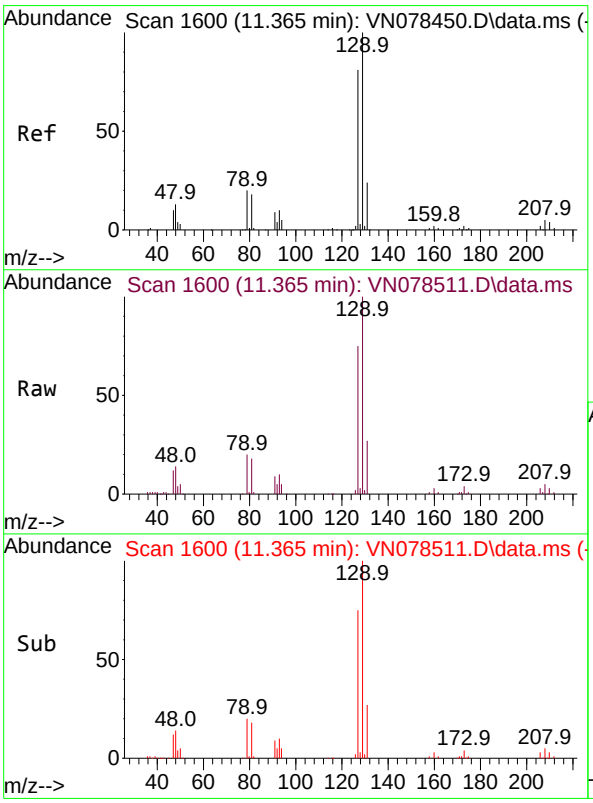
Ion	Ratio	Lower	Upper
43	100		
58	57.7	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

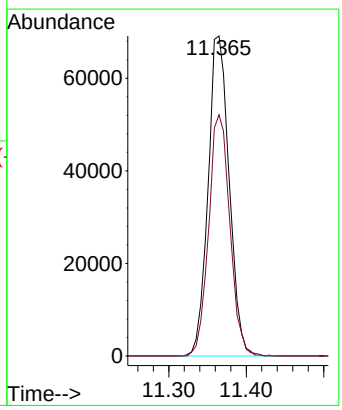


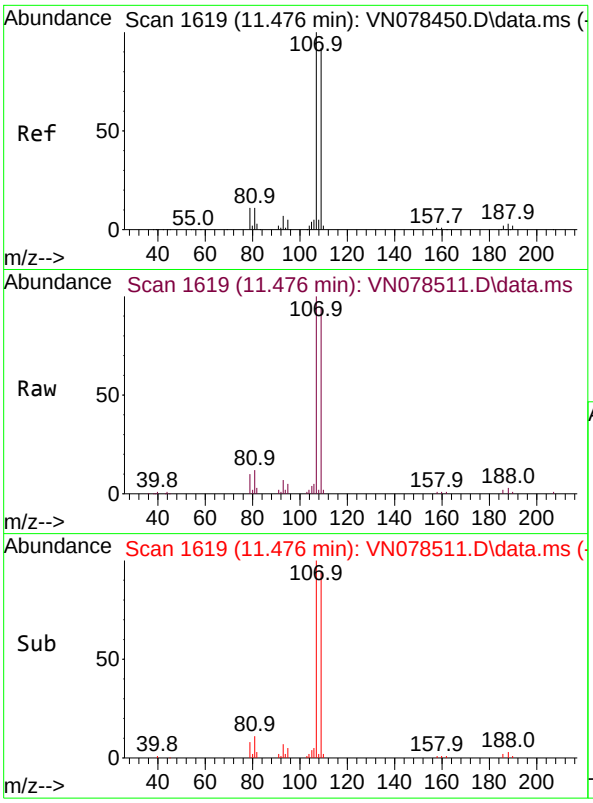


#60
Dibromochloromethane
Concen: 21.453 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:129 Resp: 130926

Ion	Ratio	Lower	Upper
129	100		
127	75.5	38.6	116.0

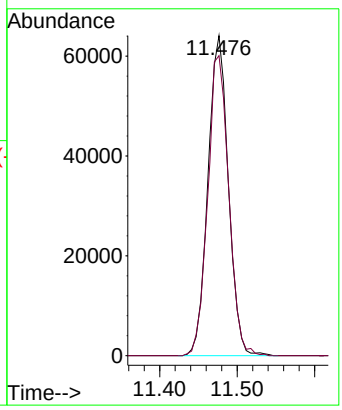




#61
1,2-Dibromoethane
Concen: 20.592 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:107 Resp: 11726

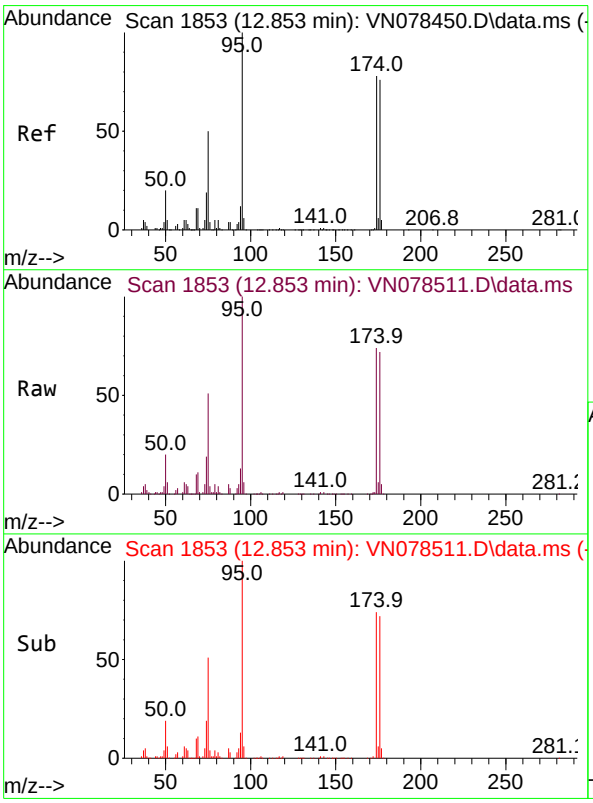
Ion	Ratio	Lower	Upper
107	100		
109	96.7	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

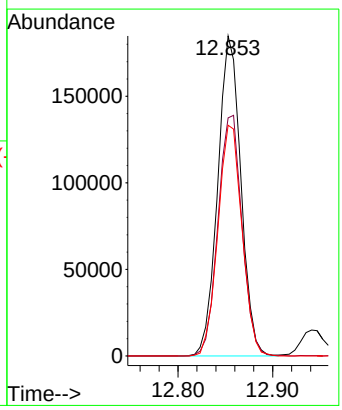
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

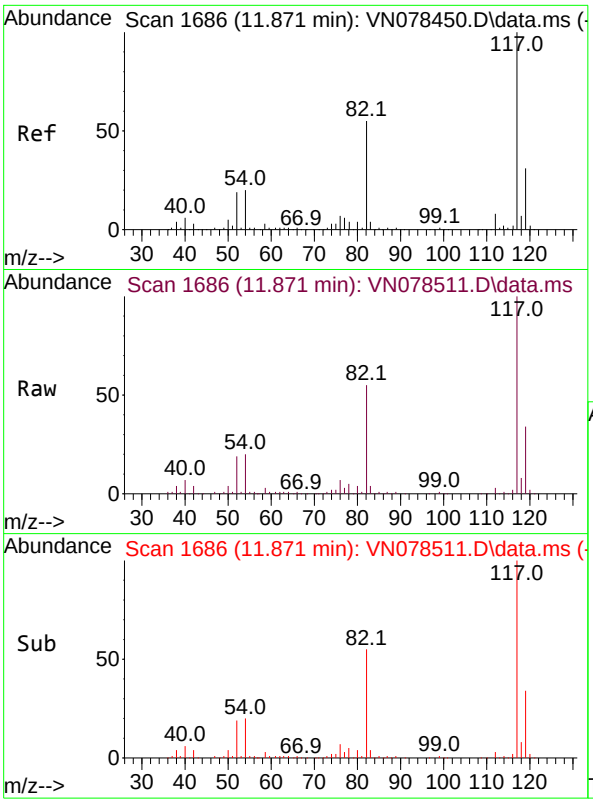


#62
4-Bromofluorobenzene
Concen: 50.909 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 95 Resp: 313502

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	143.8
176	75.1	0.0	135.8

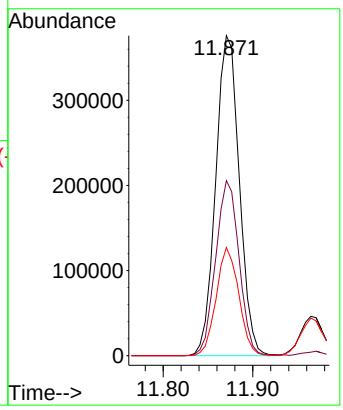




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:117 Resp: 68758

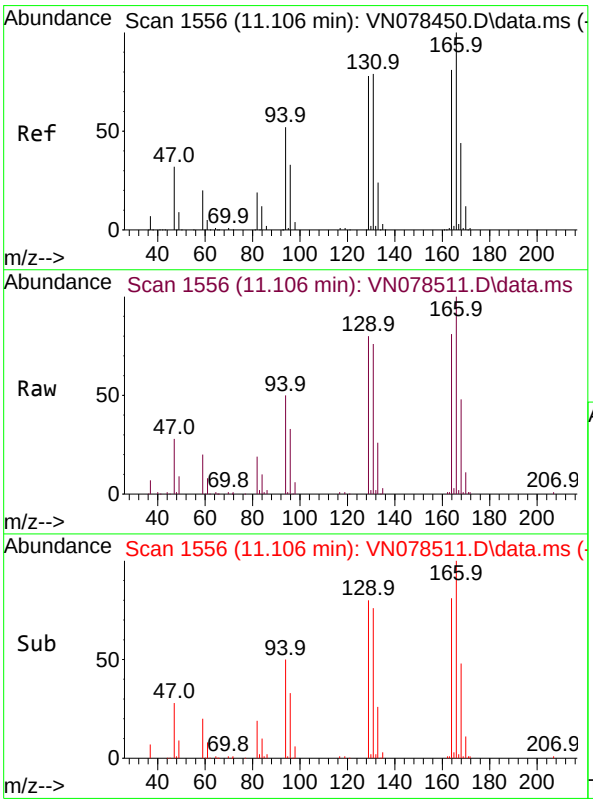
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.0	66.0
119	33.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

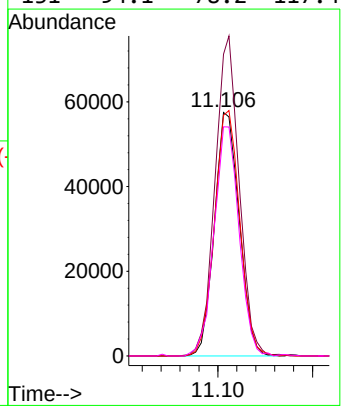
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

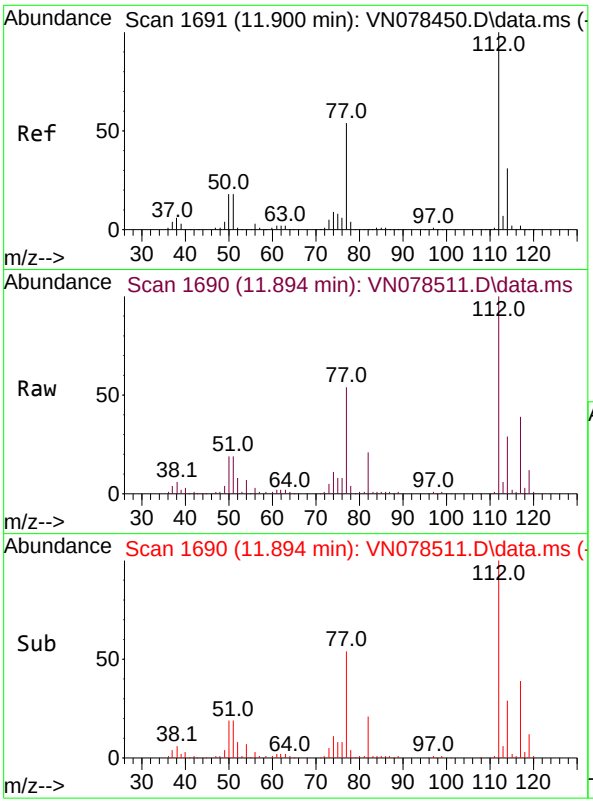


#64
Tetrachloroethene
Concen: 20.277 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:164 Resp: 104821

Ion	Ratio	Lower	Upper
164	100		
166	123.9	101.4	152.0
129	98.8	82.4	123.6
131	94.1	78.2	117.4

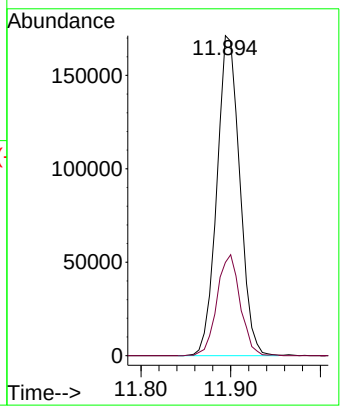




#65
Chlorobenzene
Concen: 19.730 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:112 Resp: 30323

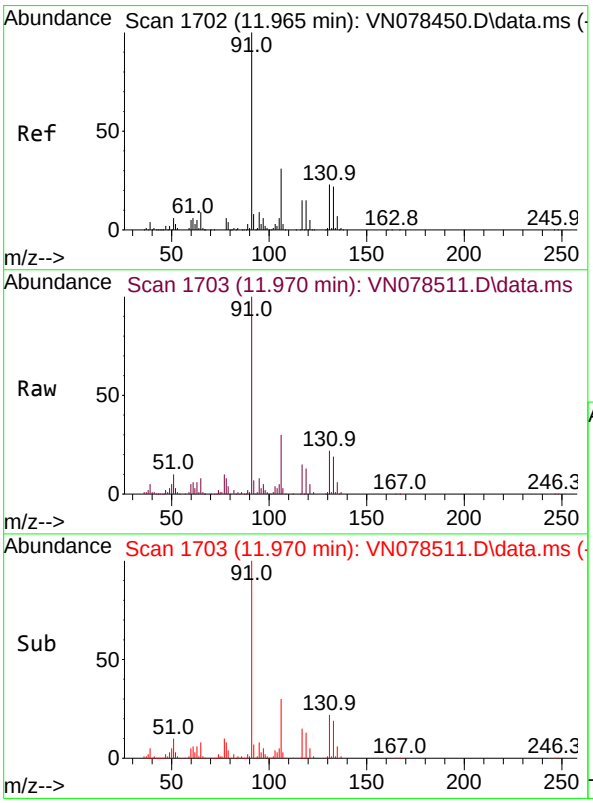
Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

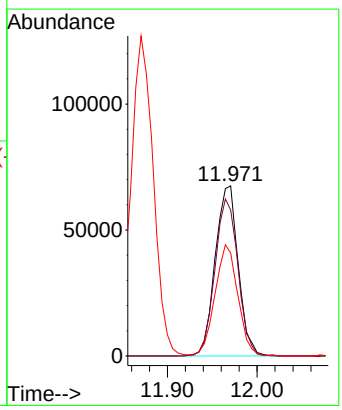
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

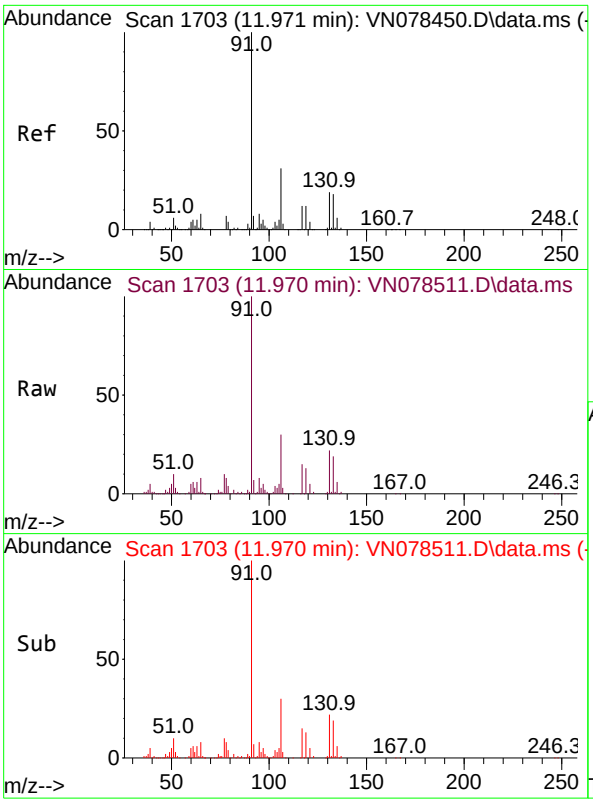


#66
1,1,1,2-Tetrachloroethane
Concen: 20.277 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:131 Resp: 119889

Ion	Ratio	Lower	Upper
131	100		
133	92.8	46.4	139.1
119	64.9	34.1	102.2





#67
Ethyl Benzene
Concen: 20.026 ug/l
RT: 11.970 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

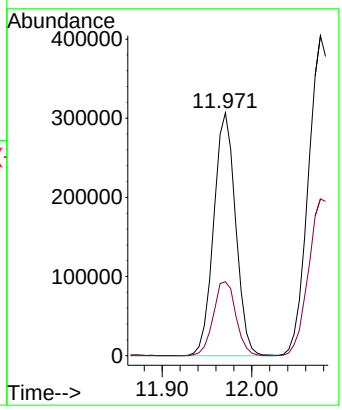
Tgt Ion: 91 Resp: 52026

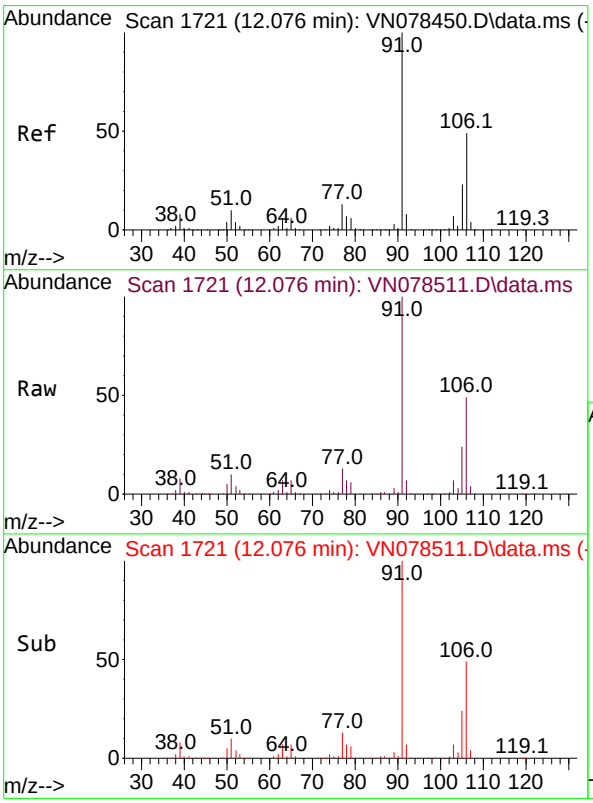
Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

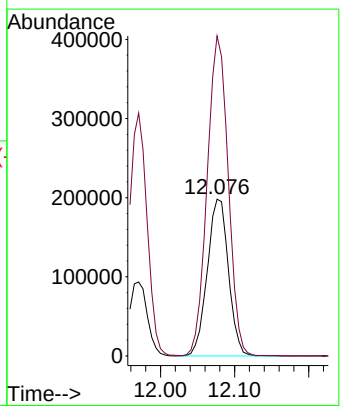


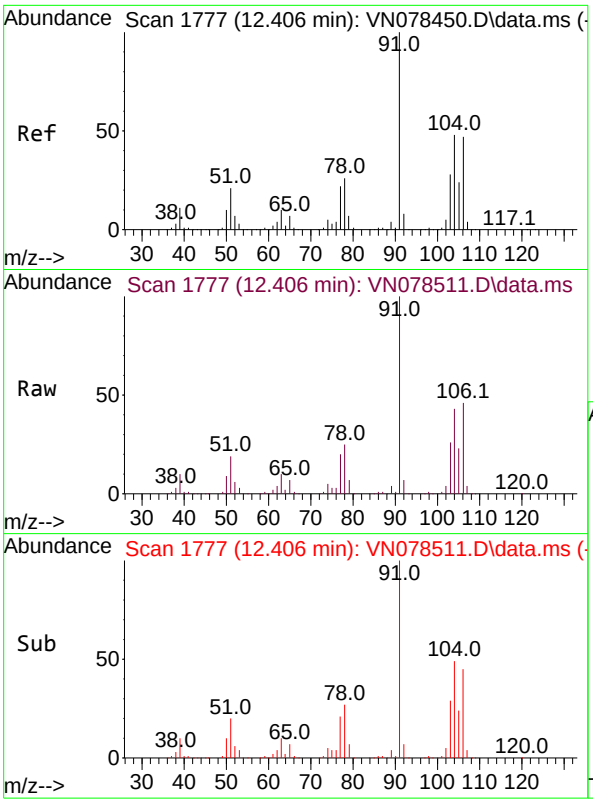


#68
m/p-Xylenes
Concen: 40.866 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:106 Resp: 392529

Ion	Ratio	Lower	Upper
106	100		
91	203.1	159.6	239.4

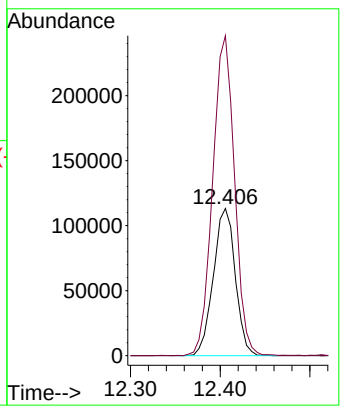




#69
o-Xylene
Concen: 19.778 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:106 Resp: 19188

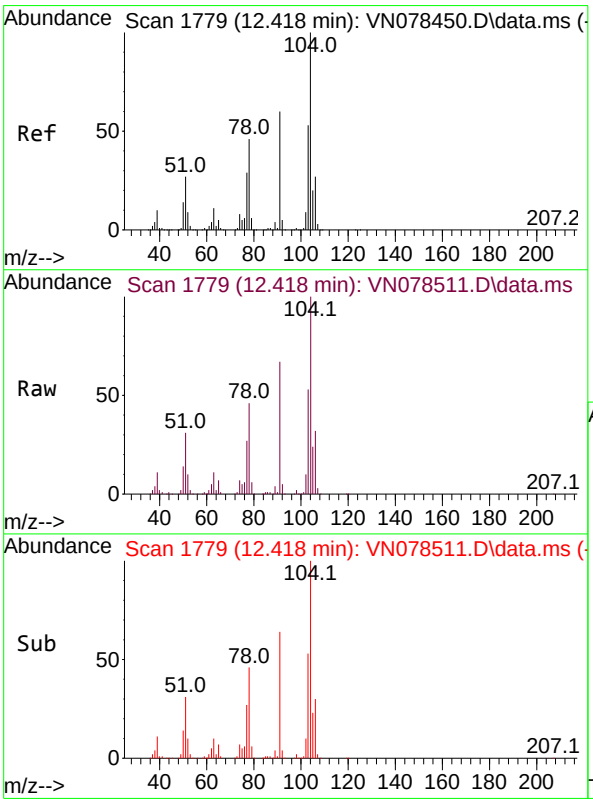
Ion	Ratio	Lower	Upper
106	100		
91	217.2	105.2	315.5



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

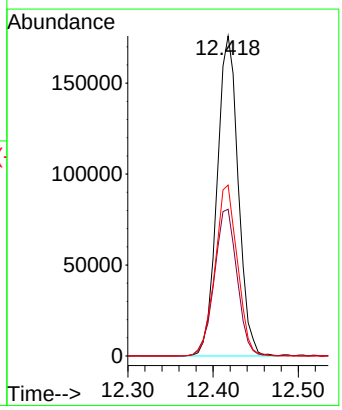
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

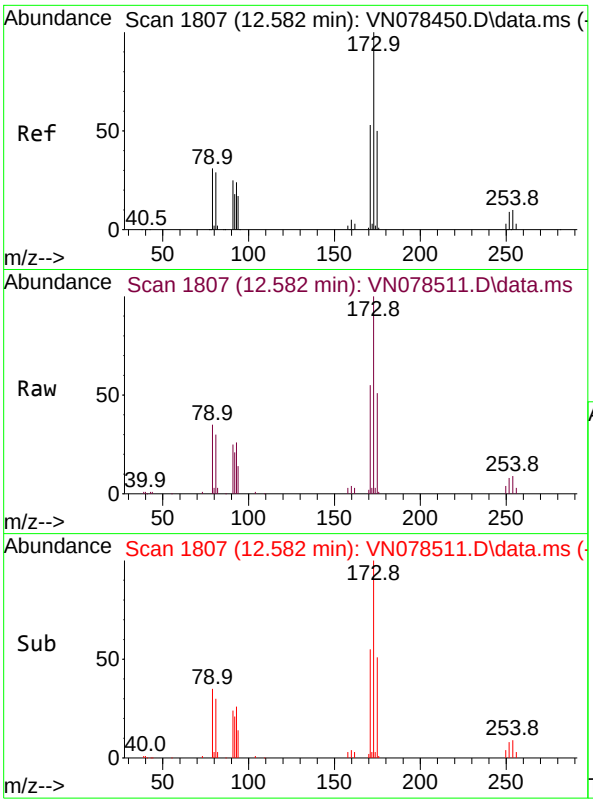


#70
Styrene
Concen: 19.966 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:104 Resp: 303048

Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.5	59.3
103	56.6	43.2	64.8

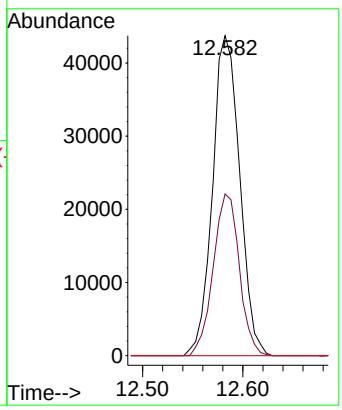




#71
Bromoform
Concen: 20.563 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:173 Resp: 8233

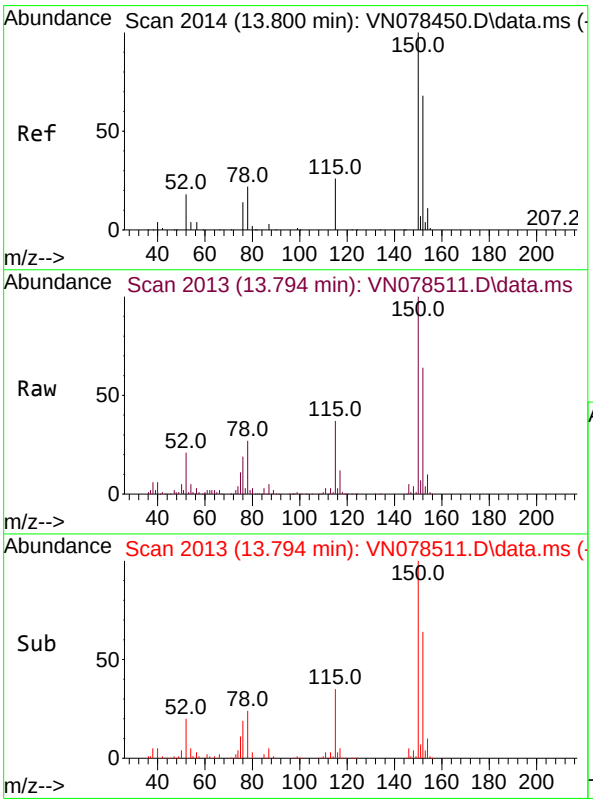
Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	73.0
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

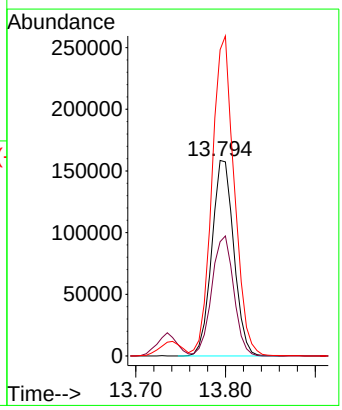
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

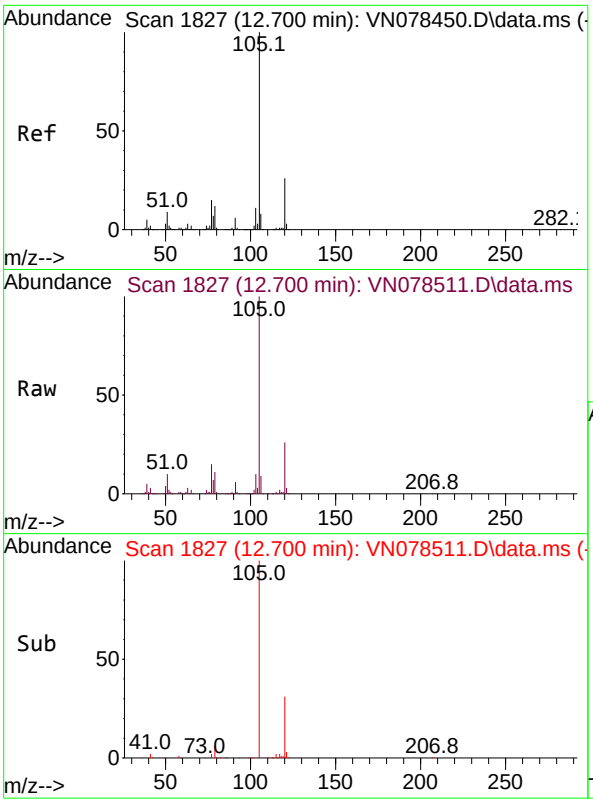


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:152 Resp: 270572

Ion	Ratio	Lower	Upper
152	100		
115	61.1	32.3	96.8
150	165.3	0.0	355.8





#73
Isopropylbenzene
Concen: 19.024 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

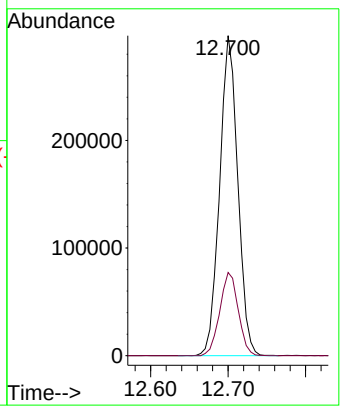
Tgt Ion:105 Resp: 48366

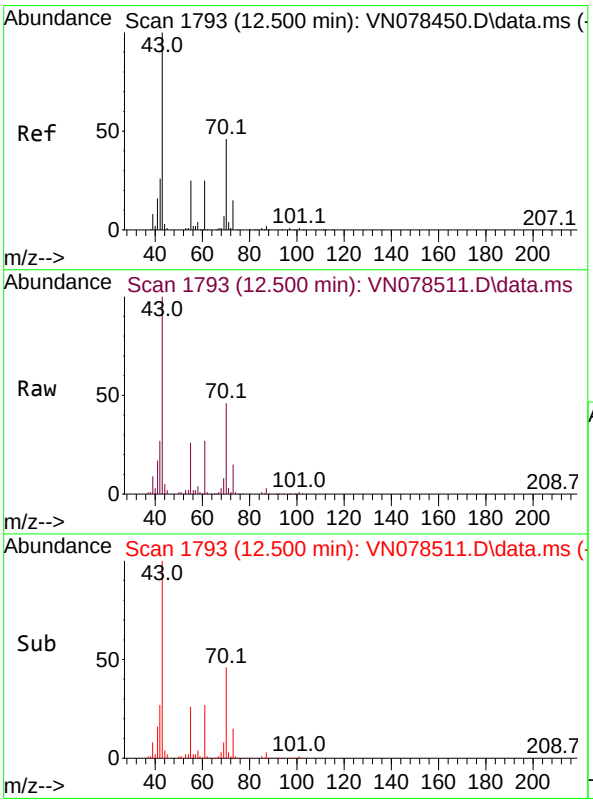
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

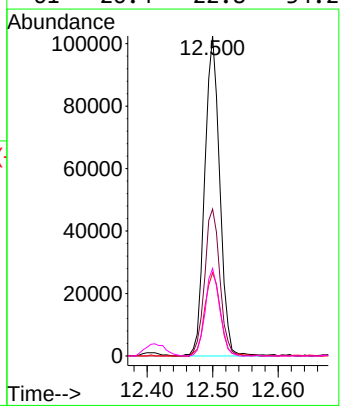


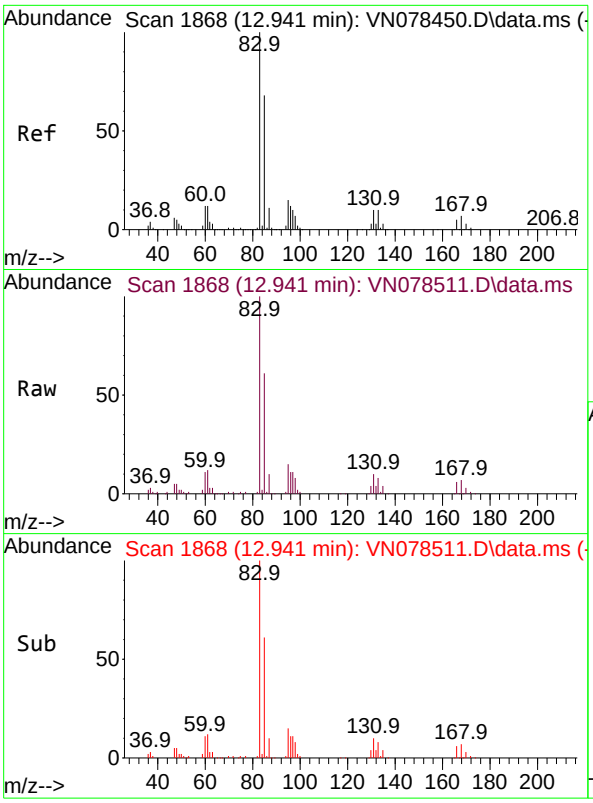


#74
N-amyl acetate
Concen: 18.716 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 43 Resp: 163986

Ion	Ratio	Lower	Upper
43	100		
70	46.5	43.4	65.2
55	26.8	21.4	32.0
61	26.4	22.8	34.2

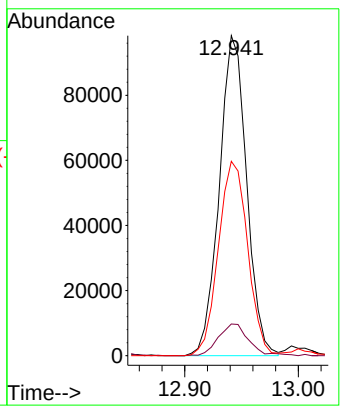




#75
1,1,2,2-Tetrachloroethane
Concen: 21.369 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 83 Resp: 16433

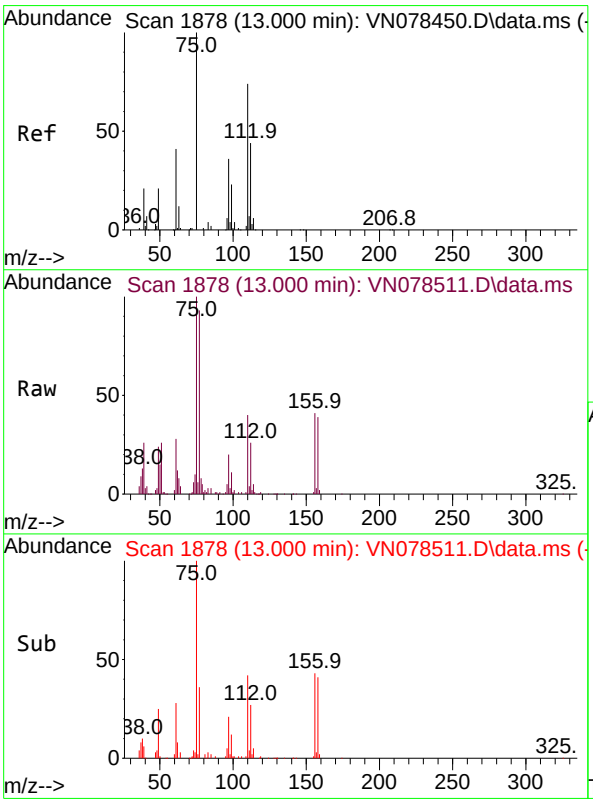
Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.0	15.0
85	65.1	31.9	95.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

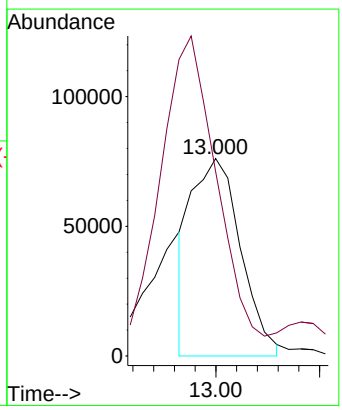
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

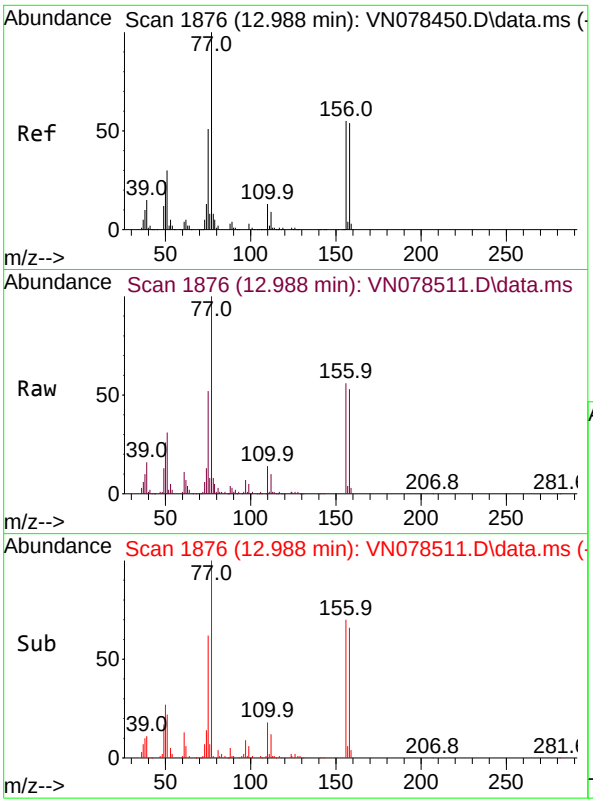


#76
1,2,3-Trichloropropane
Concen: 19.176 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 75 Resp: 125415

Ion	Ratio	Lower	Upper
75	100		
77	192.2	84.5	253.5

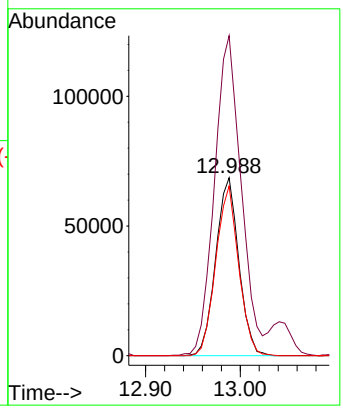




#77
Bromobenzene
Concen: 20.066 ug/l
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:156 Resp: 11605

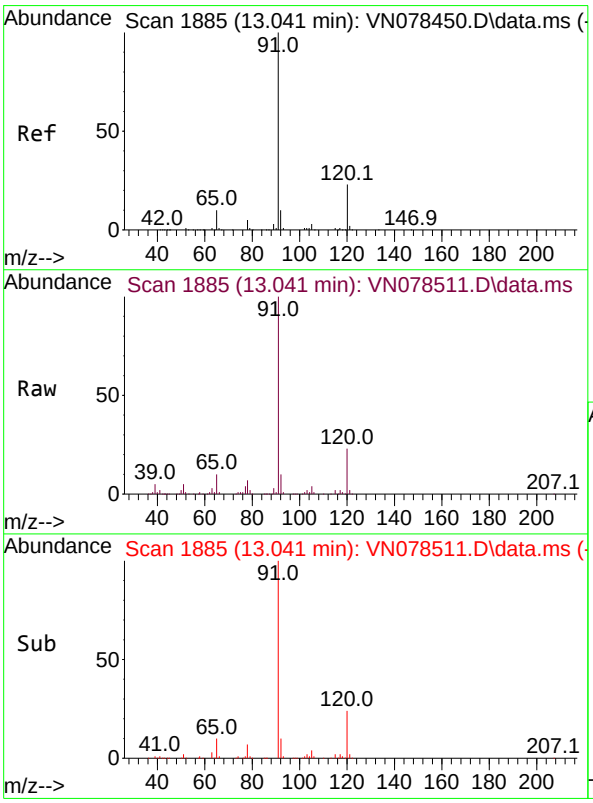
Ion	Ratio	Lower	Upper
156	100		
77	207.7	107.7	323.3
158	94.5	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

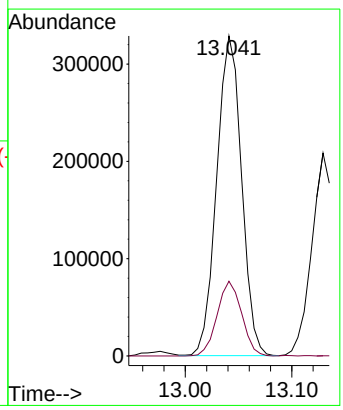
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

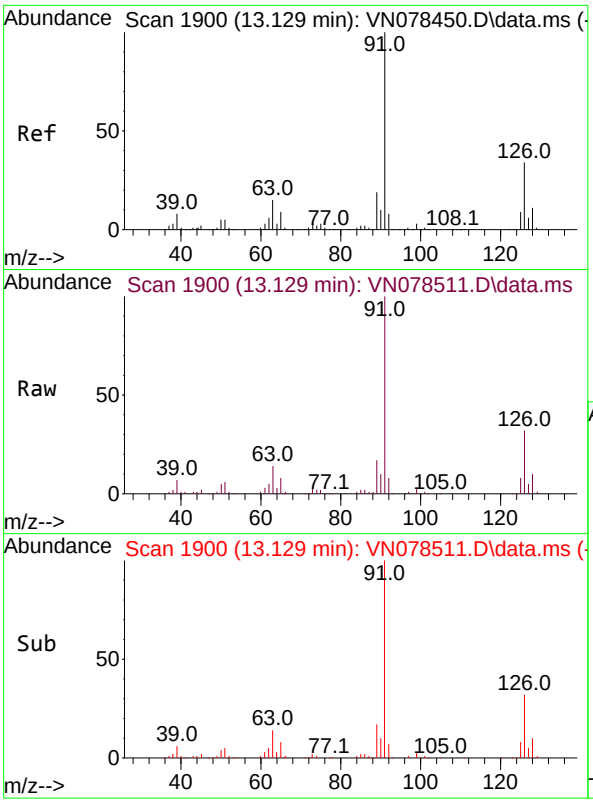


#78
n-propylbenzene
Concen: 19.556 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 91 Resp: 531712

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4

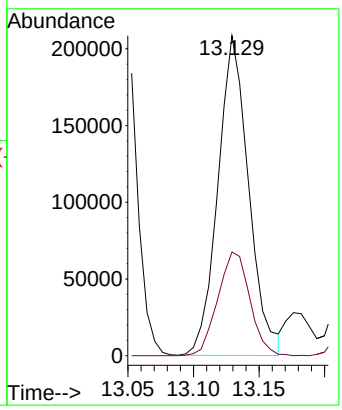




#79
2-Chlorotoluene
Concen: 19.093 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 91 Resp: 34003

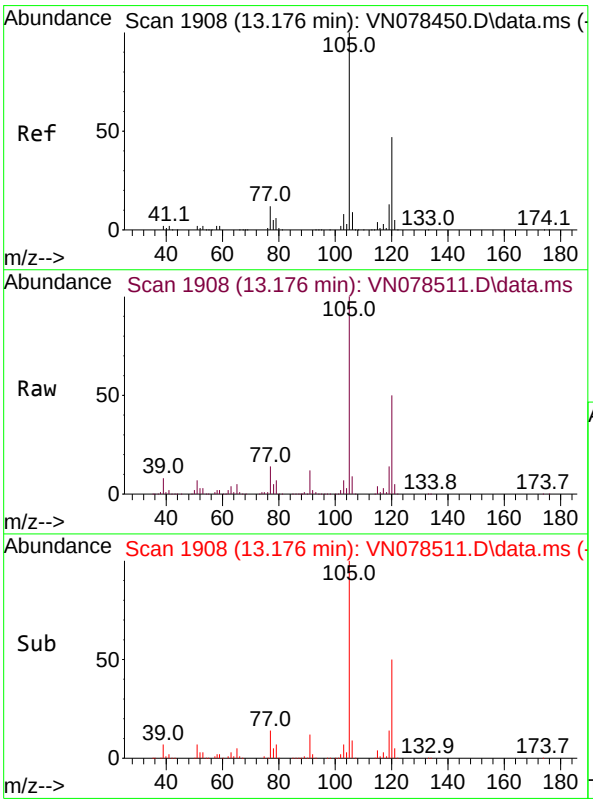
Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

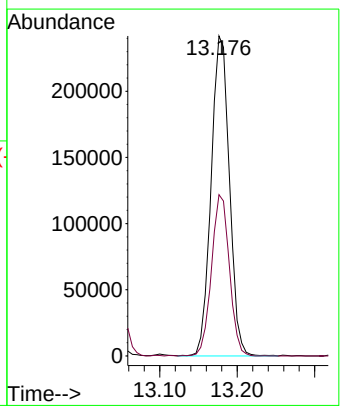
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

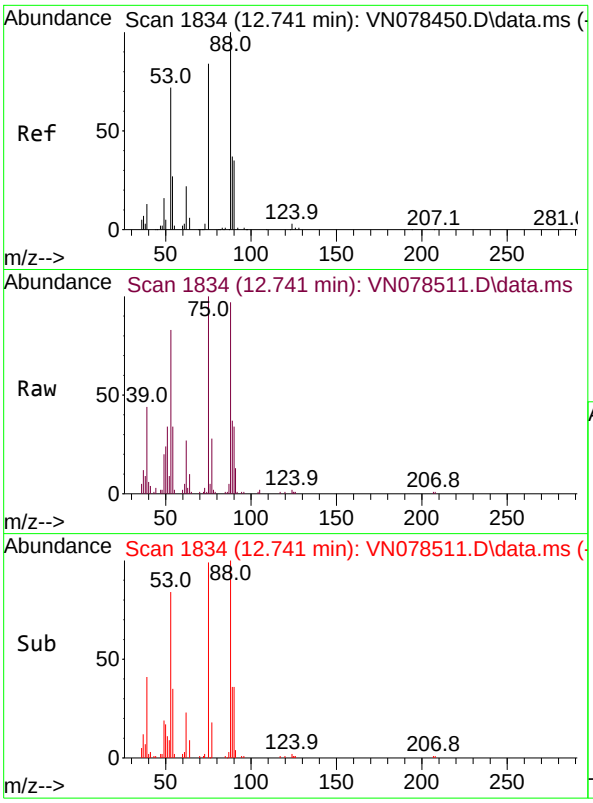


#80
1,3,5-Trimethylbenzene
Concen: 19.769 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:105 Resp: 397119

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 20.756 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

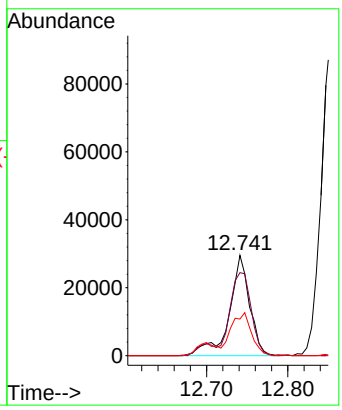
Tgt Ion: 75 Resp: 5165

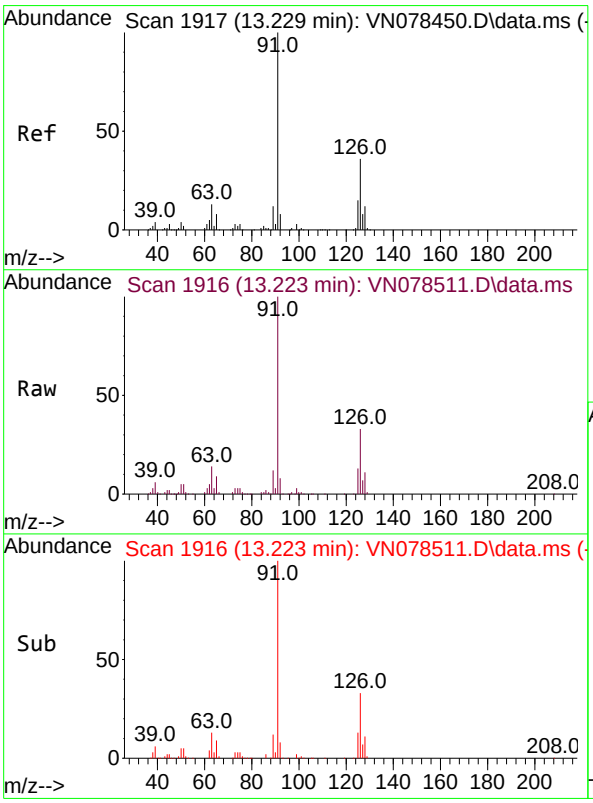
Ion	Ratio	Lower	Upper
75	100		
53	85.5	67.4	101.2
89	42.8	38.8	58.2

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

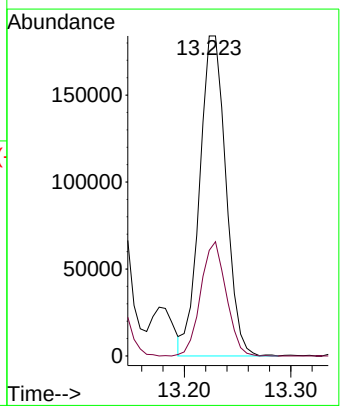


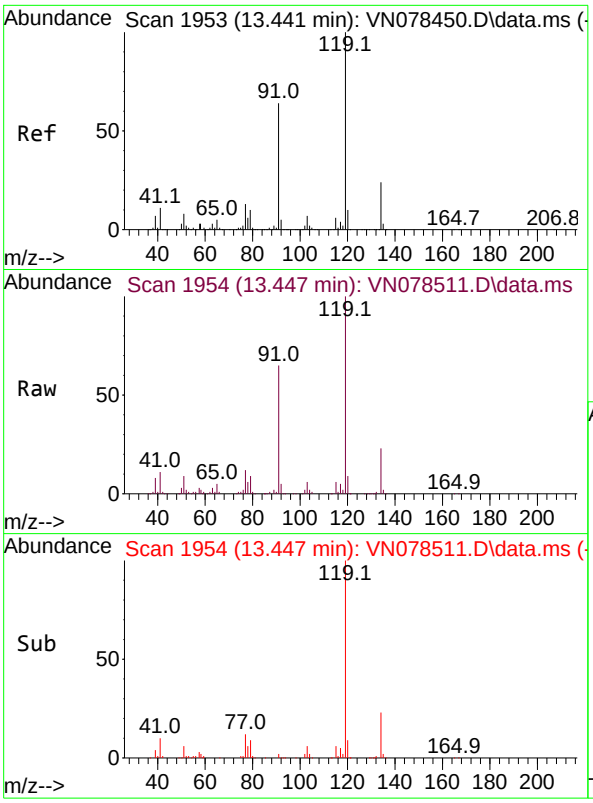


#82
4-Chlorotoluene
Concen: 18.970 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 91 Resp: 315165

Ion	Ratio	Lower	Upper
91	100		
126	34.6	16.7	50.0

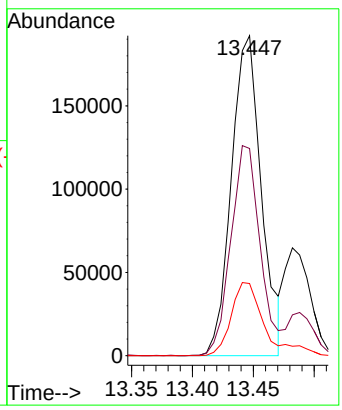




#83
tert-Butylbenzene
Concen: 19.299 ug/l
RT: 13.447 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:119 Resp: 32915

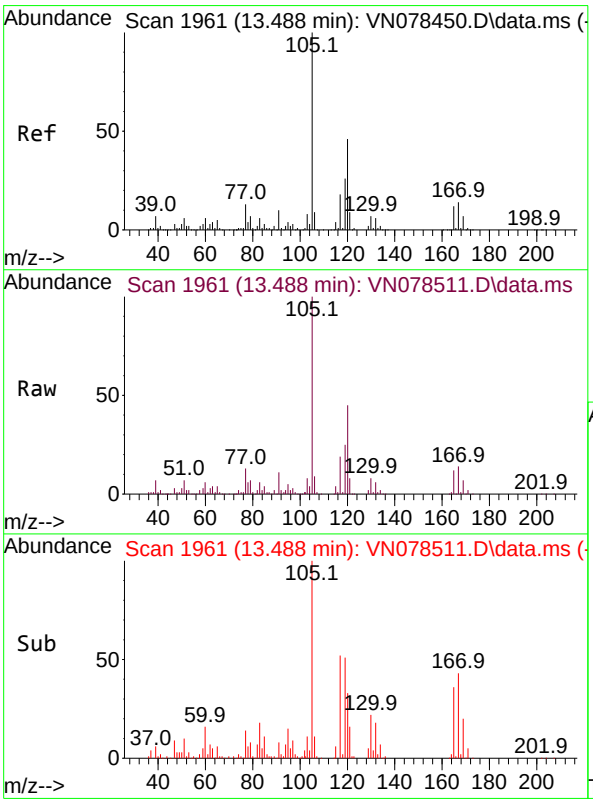
Ion	Ratio	Lower	Upper
119	100		
91	64.0	33.9	101.7
134	25.4	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

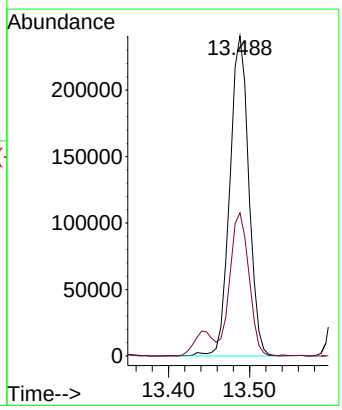
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

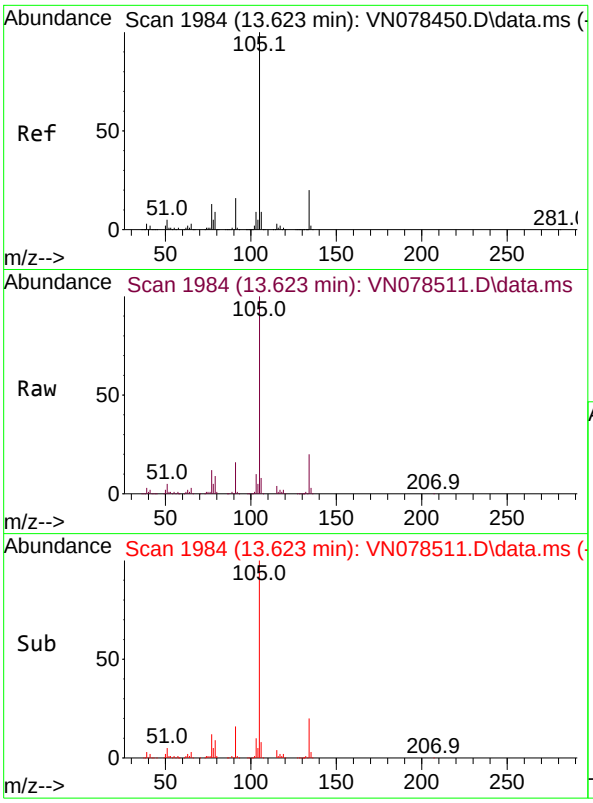


#84
1,2,4-Trimethylbenzene
Concen: 19.976 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:105 Resp: 389781

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.0	66.0





#85
sec-Butylbenzene
Concen: 19.401 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

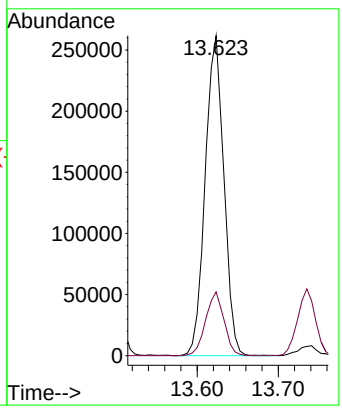
Tgt Ion:105 Resp: 41824

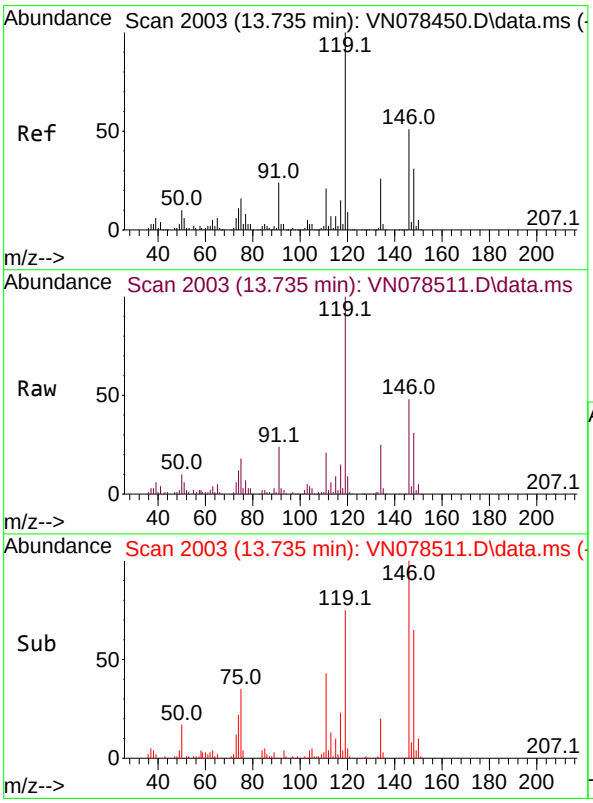
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

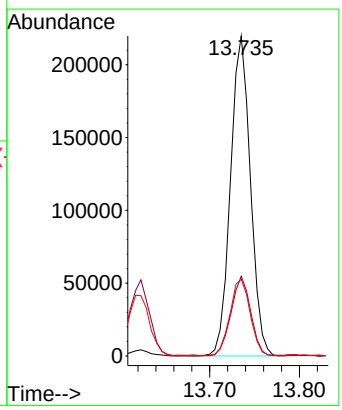


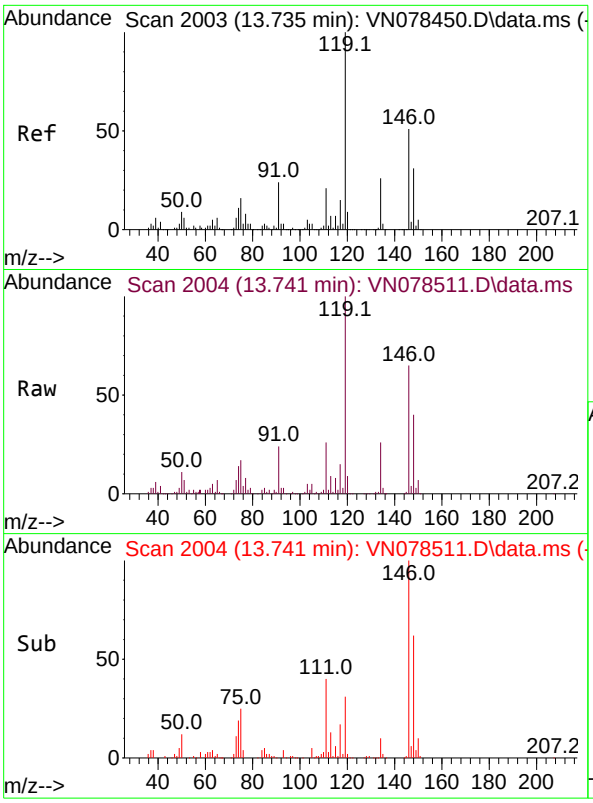


#86
p-Isopropyltoluene
Concen: 19.581 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:119 Resp: 338944

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.6	37.8
91	24.6	12.4	37.2





#87
1,3-Dichlorobenzene
Concen: 19.564 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

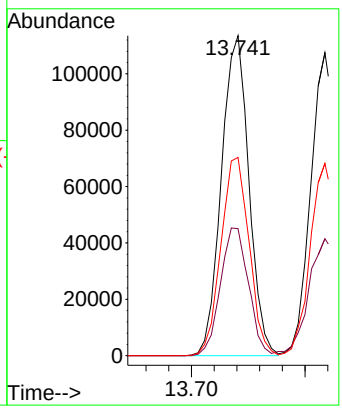
Tgt Ion:146 Resp: 19095

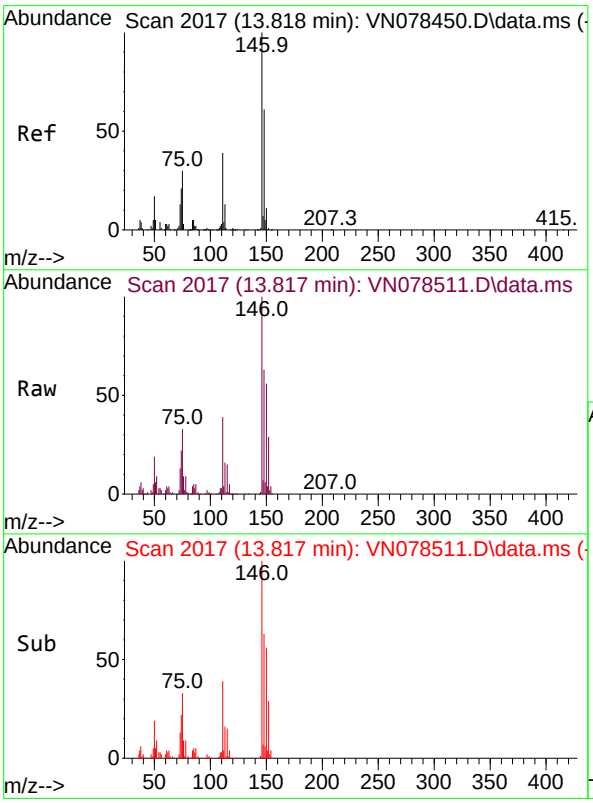
Ion	Ratio	Lower	Upper
146	100		
111	40.6	22.1	66.3
148	63.5	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

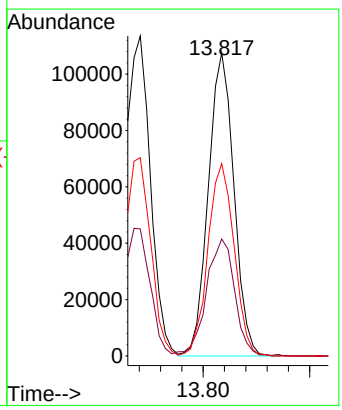


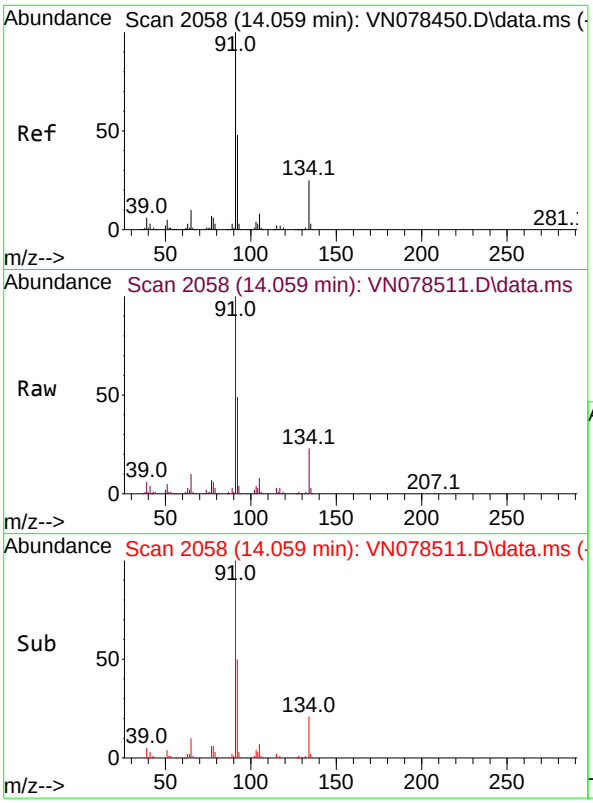


#88
1,4-Dichlorobenzene
Concen: 18.249 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:146 Resp: 179400

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.6	61.8
148	65.2	31.6	94.8





#89
n-Butylbenzene
Concen: 19.818 ug/l
RT: 14.059 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

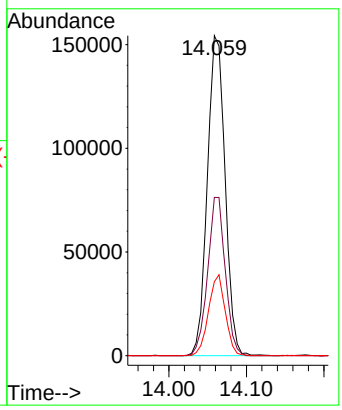
Tgt Ion: 91 Resp: 24545

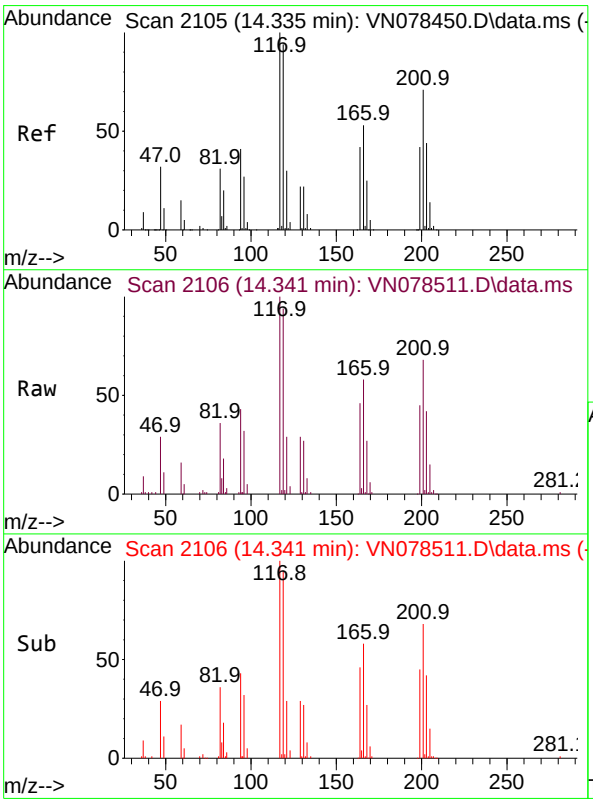
Ion	Ratio	Lower	Upper
91	100		
92	49.1	26.4	79.0
134	23.9	12.6	37.6

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

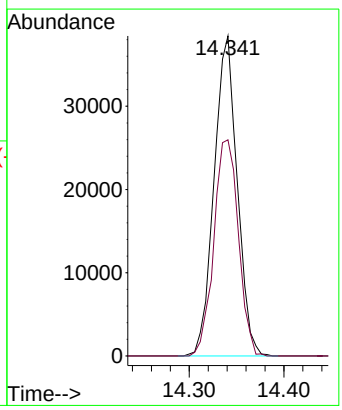


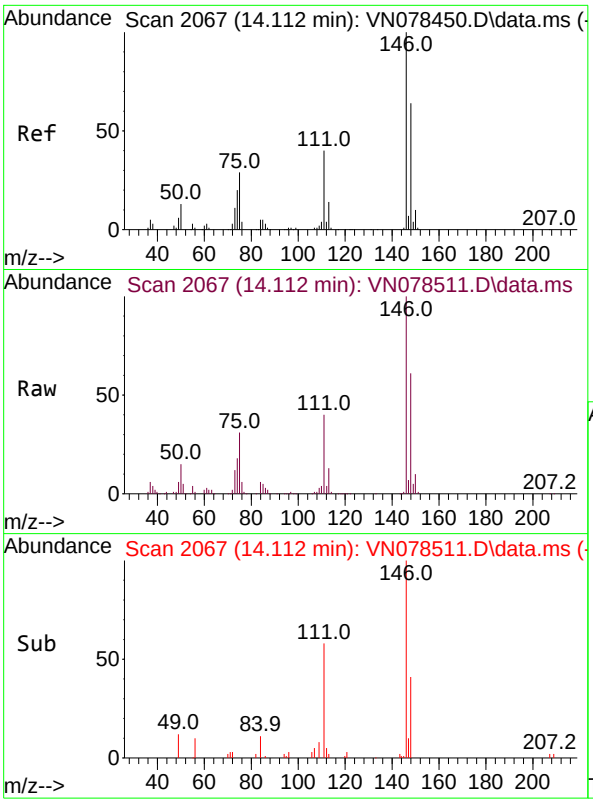


#90
Hexachloroethane
Concen: 20.045 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:117 Resp: 65328

Ion	Ratio	Lower	Upper
117	100		
201	71.6	29.3	88.0

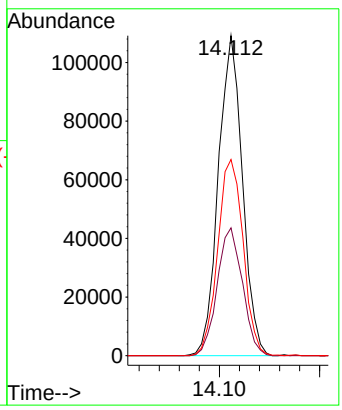




#91
1,2-Dichlorobenzene
Concen: 18.732 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:146 Resp: 18194

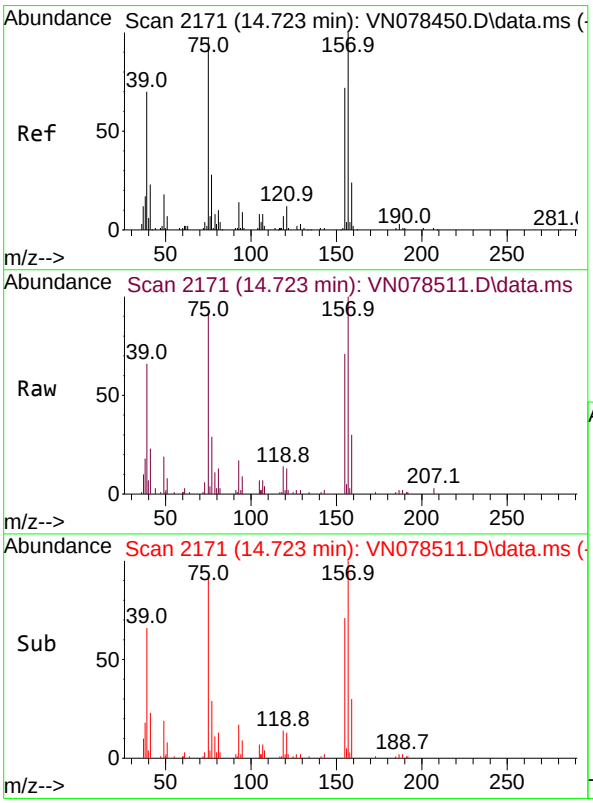
Ion	Ratio	Lower	Upper
146	100		
111	41.8	22.0	66.0
148	64.7	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

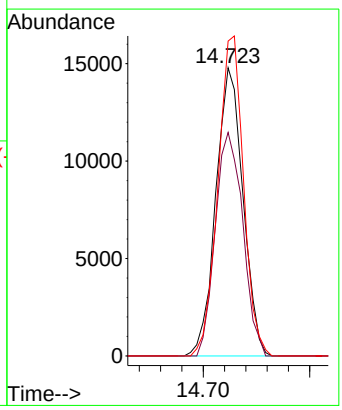
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

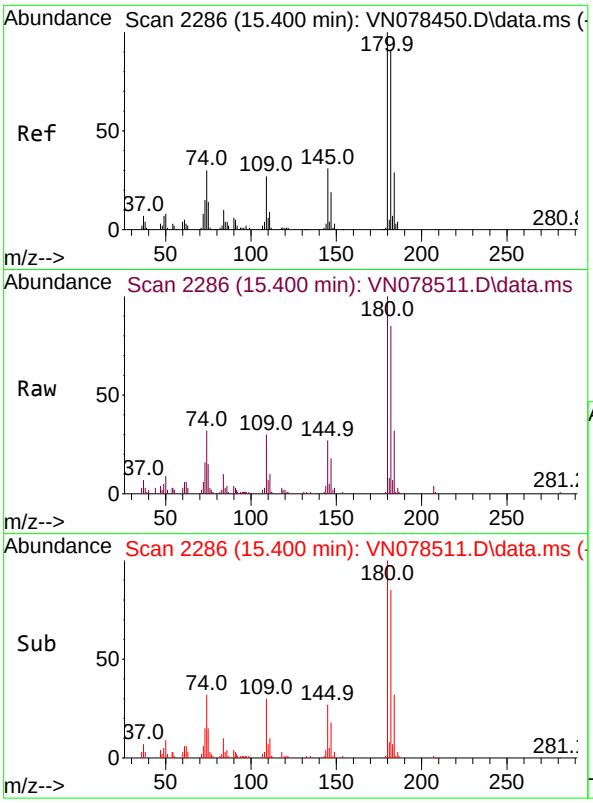


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.306 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion: 75 Resp: 26103

Ion	Ratio	Lower	Upper
75	100		
155	78.6	39.1	117.2
157	104.8	50.3	150.9

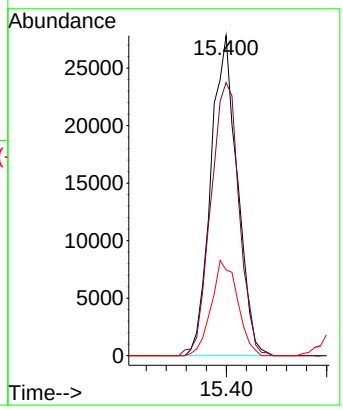




#93
1,2,4-Trichlorobenzene
Concen: 16.422 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:180 Resp: 5090

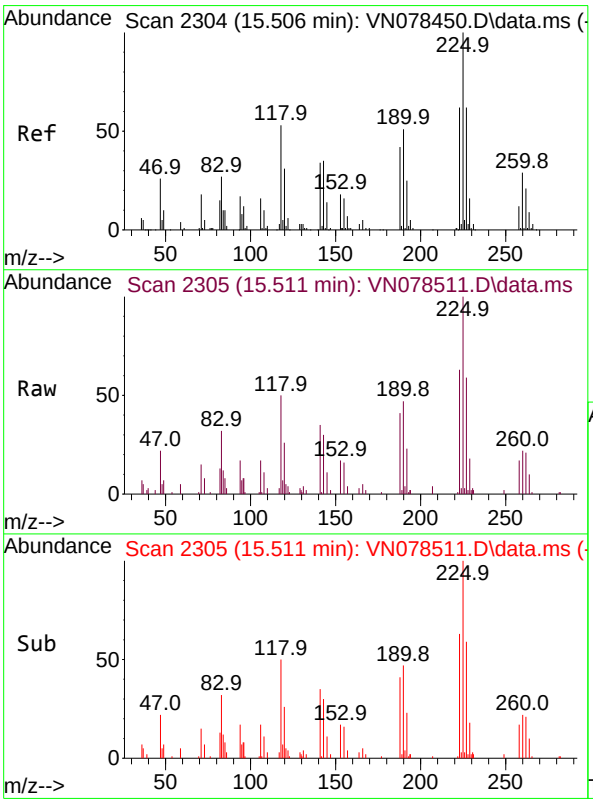
Ion	Ratio	Lower	Upper
180	100		
182	91.6	46.1	138.2
145	29.6	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations APPROVED

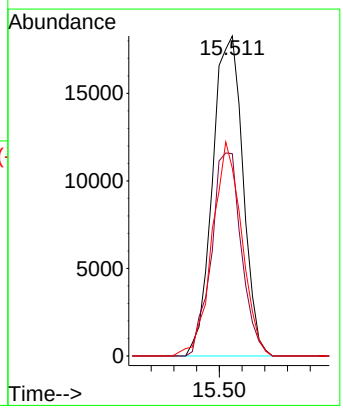
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

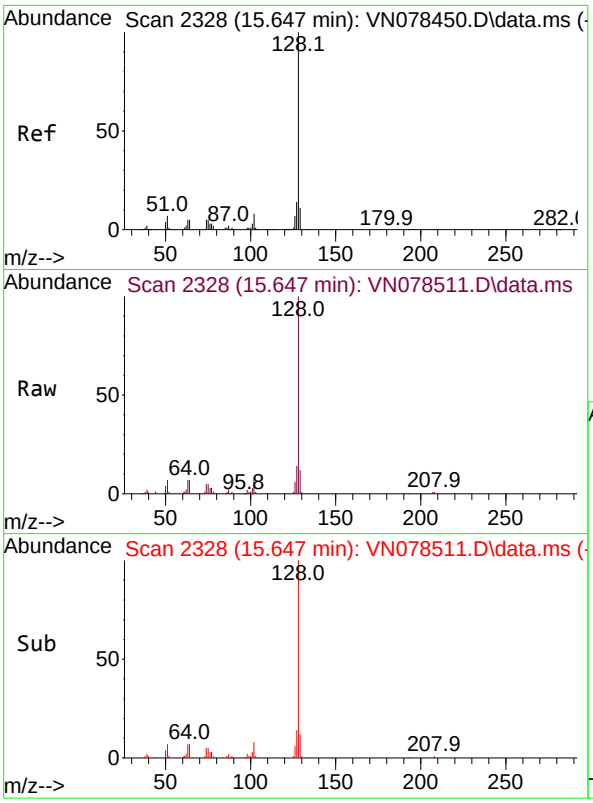


#94
Hexachlorobutadiene
Concen: 18.567 ug/l
RT: 15.511 min Scan# 2305
Delta R.T. 0.005 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:225 Resp: 33949

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.3	93.8
227	65.0	31.9	95.9

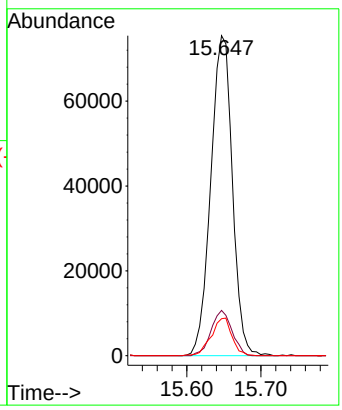




#95
Naphthalene
Concen: 14.416 ug/l
RT: 15.647 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:128 Resp: 15278

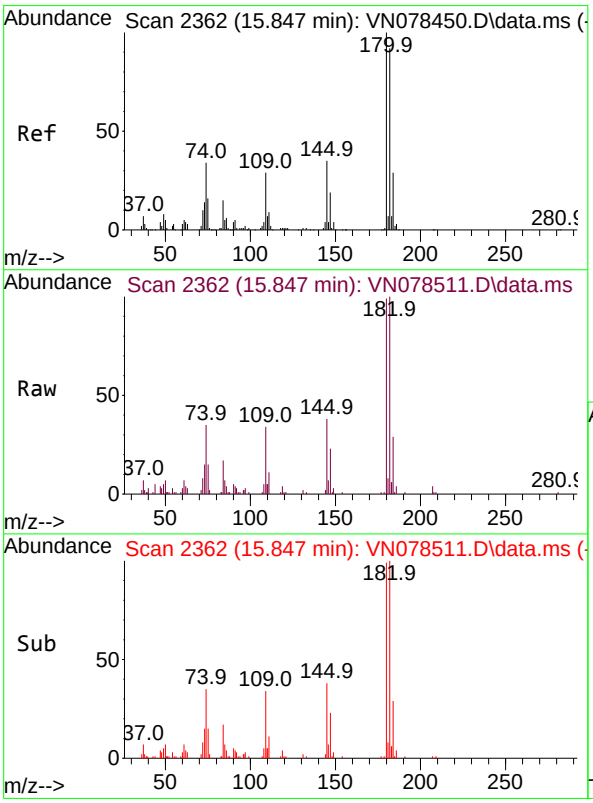
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.0	15.0
129	11.3	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBS01

Manual Integrations
APPROVED

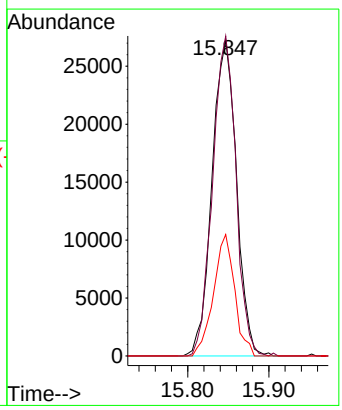
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#96
1,2,3-Trichlorobenzene
Concen: 16.000 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078511.D
Acq: 14 Jul 2023 10:34

Tgt Ion:180 Resp: 57032

Ion	Ratio	Lower	Upper
180	100		
182	96.8	46.2	138.6
145	33.3	17.5	52.6



CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBS01	SDG No.:	O3631
Lab Sample ID:	VY0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014665.D	1		07/17/23 12:23	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.5		1.60	5.00	ug/Kg
74-87-3	Chloromethane	25.4		0.91	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.9		0.93	5.00	ug/Kg
74-83-9	Bromomethane	25.0		1.20	5.00	ug/Kg
75-00-3	Chloroethane	24.9		0.88	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		1.10	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		0.72	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		0.79	5.00	ug/Kg
67-64-1	Acetone	120		9.40	25.0	ug/Kg
75-15-0	Carbon Disulfide	22.2		2.20	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.4		0.65	5.00	ug/Kg
79-20-9	Methyl Acetate	25.4		1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	23.3		6.10	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.4		0.73	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.1		0.72	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.70	5.00	ug/Kg
78-93-3	2-Butanone	130		7.30	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.5		0.78	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	22.9		0.64	5.00	ug/Kg
74-97-5	Bromochloromethane	23.6		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.4		1.30	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.7		0.76	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.7		3.40	5.00	ug/Kg
71-43-2	Benzene	22.2		0.66	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.5		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	22.2		0.66	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.8		0.59	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.70	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.50	25.0	ug/Kg
108-88-3	Toluene	22.1		0.65	5.00	ug/Kg

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBS01	SDG No.:	O3631
Lab Sample ID:	VY0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014665.D	1		07/17/23 12:23	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	22.1		0.77	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.8		0.74	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.86	5.00	ug/Kg
591-78-6	2-Hexanone	120		5.30	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.8		0.85	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	23.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.9		0.77	5.00	ug/Kg
108-90-7	Chlorobenzene	22.0		0.63	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	43.0		1.40	10.0	ug/Kg
1330-20-7	Total Xylenes	65.0		2.17	15.0	ug/Kg
95-47-6	o-Xylene	22.0		0.77	5.00	ug/Kg
100-42-5	Styrene	22.2		0.69	5.00	ug/Kg
75-25-2	Bromoform	23.6		0.95	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.0		0.71	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	22.5		1.10	5.00	ug/Kg
103-65-1	n-propylbenzene	20.1		0.70	5.00	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20.9		0.64	5.00	ug/Kg
98-06-6	tert-Butylbenzene	20.3		0.77	5.00	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	21.3		0.67	5.00	ug/Kg
135-98-8	sec-Butylbenzene	20.2		0.77	5.00	ug/Kg
99-87-6	p-Isopropyltoluene	20.5		0.74	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.68	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.5		0.60	5.00	ug/Kg
104-51-8	n-Butylbenzene	20.0		0.68	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.7		0.60	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	23.7		1.20	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	22.0		0.61	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.6		0.63	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		50 - 163	103%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VY0717SBS01	SDG No.:	O3631
Lab Sample ID:	VY0717SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014665.D	1		07/17/23 12:23	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	50.0		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	49.6		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		30 - 143	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	291000	7.783			
540-36-3	1,4-Difluorobenzene	487000	8.685			
3114-55-4	Chlorobenzene-d5	432000	11.489			
3855-82-1	1,4-Dichlorobenzene-d4	217000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014665.D
Acq On : 17 Jul 2023 12:23
Operator : SY/MD
Sample : VY0717SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 06:07:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.783	168	290646	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	486967	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	431608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	217159	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	169961	51.316	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.640%			
35) Dibromofluoromethane	7.710	113	155036	50.013	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.020%			
50) Toluene-d8	10.179	98	567422	49.649	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.300%			
62) 4-Bromofluorobenzene	12.477	95	217212	49.567	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	55602	23.481	ug/l	99
3) Chloromethane	2.107	50	67677	25.425	ug/l	96
4) Vinyl Chloride	2.247	62	74056	24.894	ug/l	98
5) Bromomethane	2.625	94	49102	24.977	ug/l	100
6) Chloroethane	2.778	64	46182	24.853	ug/l	99
7) Trichlorofluoromethane	3.113	101	110776	22.172	ug/l	98
8) Diethyl Ether	3.521	74	42011	22.599	ug/l	87
9) 1,1,2-Trichlorotrifluo...	3.887	101	66413	21.687	ug/l	93
10) Methyl Iodide	4.076	142	65107	21.475	ug/l	96
11) Tert butyl alcohol	4.942	59	122370	171.164	ug/l #	92
12) 1,1-Dichloroethene	3.863	96	63211	22.085	ug/l	90
13) Acrolein	3.723	56	38401	110.931	ug/l	97
14) Allyl chloride	4.466	41	104910	20.644	ug/l	96
15) Acrylonitrile	5.149	53	126685	123.584	ug/l	97
16) Acetone	3.942	43	127936	121.897	ug/l	93
17) Carbon Disulfide	4.186	76	181832	22.190	ug/l	98
18) Methyl Acetate	4.466	43	102185	25.371	ug/l	93
19) Methyl tert-butyl Ether	5.210	73	217248	23.367	ug/l	100
20) Methylene Chloride	4.704	84	87193	23.320	ug/l	91
21) trans-1,2-Dichloroethene	5.204	96	72667	22.372	ug/l	99
22) Diisopropyl ether	6.112	45	219590	21.254	ug/l	91
23) Vinyl Acetate	6.051	43	676450	109.407	ug/l	96
24) 1,1-Dichloroethane	6.009	63	130414	22.060	ug/l	97
25) 2-Butanone	6.978	43	196512	127.982	ug/l	98
26) 2,2-Dichloropropane	6.972	77	124111	22.028	ug/l	99
27) cis-1,2-Dichloroethene	6.978	96	86557	22.894	ug/l	97
28) Bromochloromethane	7.326	49	59970	23.554	ug/l	93
29) Tetrahydrofuran	7.338	42	119837	126.748	ug/l	92
30) Chloroform	7.496	83	136607	22.409	ug/l	97
31) Cyclohexane	7.777	56	112452	20.453	ug/l	91
32) 1,1,1-Trichloroethane	7.697	97	119185	21.723	ug/l	99
36) 1,1-Dichloropropene	7.911	75	96136	20.738	ug/l	98
37) Ethyl Acetate	7.063	43	77952	24.423	ug/l #	95
38) Carbon Tetrachloride	7.899	117	105577	21.544	ug/l	99
39) Methylcyclohexane	9.179	83	124796	20.663	ug/l	94
40) Benzene	8.155	78	292302	22.170	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014665.D
Acq On : 17 Jul 2023 12:23
Operator : SY/MD
Sample : VY0717SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 06:07:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.313	41	37408m	22.786	ug/l		
42) 1,2-Dichloroethane	8.234	62	94114	22.541	ug/l		95
43) Isopropyl Acetate	8.271	43	138147	22.722	ug/l		96
44) Trichloroethene	8.935	130	81779	22.169	ug/l		98
45) 1,2-Dichloropropane	9.209	63	75089	21.811	ug/l		98
46) Dibromomethane	9.301	93	46200	22.120	ug/l		97
47) Bromodichloromethane	9.490	83	107500	21.838	ug/l		94
48) Methyl methacrylate	9.289	41	62915	22.997	ug/l		91
49) 1,4-Dioxane	9.295	88	16913	496.625	ug/l	#	40
51) 4-Methyl-2-Pentanone	10.069	43	391425	122.616	ug/l		93
52) Toluene	10.240	92	186689	22.128	ug/l		93
53) t-1,3-Dichloropropene	10.459	75	119075	22.115	ug/l		98
54) cis-1,3-Dichloropropene	9.923	75	127855	21.835	ug/l		96
55) 1,1,2-Trichloroethane	10.642	97	66701	22.927	ug/l		97
56) Ethyl methacrylate	10.508	69	99538	22.408	ug/l		90
57) 1,3-Dichloropropane	10.788	76	110371	21.995	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.776	63	250598	121.078	ug/l		94
59) 2-Hexanone	10.831	43	289703	124.444	ug/l		91
60) Dibromochloromethane	10.983	129	81466	22.839	ug/l		100
61) 1,2-Dibromoethane	11.087	107	67796	23.359	ug/l		100
64) Tetrachloroethene	10.715	164	79513	22.906	ug/l		97
65) Chlorobenzene	11.514	112	202176	21.982	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	75630	21.809	ug/l		99
67) Ethyl Benzene	11.587	91	366824	22.090	ug/l		100
68) m/p-Xylenes	11.697	106	272575	43.000	ug/l		98
69) o-Xylene	12.026	106	135952	22.019	ug/l		98
70) Styrene	12.038	104	231140	22.212	ug/l		98
71) Bromoform	12.203	173	55404	23.570	ug/l	#	99
73) Isopropylbenzene	12.325	105	356445	20.963	ug/l		100
74) N-amyl acetate	12.142	43	122629	21.533	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.581	83	87053	22.450	ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	62720m	22.868	ug/l		
77) Bromobenzene	12.605	156	81760	21.065	ug/l		94
78) n-propylbenzene	12.666	91	412215	20.118	ug/l		100
79) 2-Chlorotoluene	12.751	91	237541	20.128	ug/l		100
80) 1,3,5-Trimethylbenzene	12.812	105	297391	20.942	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.373	75	30618	21.615	ug/l		93
82) 4-Chlorotoluene	12.855	91	244755	20.137	ug/l		99
83) tert-Butylbenzene	13.075	119	255297	20.267	ug/l		99
84) 1,2,4-Trimethylbenzene	13.117	105	296518	21.277	ug/l		99
85) sec-Butylbenzene	13.251	105	373575	20.217	ug/l		100
86) p-Isopropyltoluene	13.367	119	309059	20.485	ug/l		99
87) 1,3-Dichlorobenzene	13.361	146	163107	21.592	ug/l		98
88) 1,4-Dichlorobenzene	13.440	146	162613	21.482	ug/l		97
89) n-Butylbenzene	13.696	91	294111	20.037	ug/l		96
90) Hexachloroethane	13.959	117	63042	20.343	ug/l		89
91) 1,2-Dichlorobenzene	13.739	146	150198	21.702	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.349	75	17599	23.733	ug/l		93
93) 1,2,4-Trichlorobenzene	15.001	180	96751	22.022	ug/l		98
94) Hexachlorobutadiene	15.111	225	49925	20.679	ug/l		98
95) Naphthalene	15.233	128	236039	23.060	ug/l		98
96) 1,2,3-Trichlorobenzene	15.422	180	84457	21.630	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014665.D
Acq On : 17 Jul 2023 12:23
Operator : SY/MD
Sample : VY0717SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 06:07:20 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

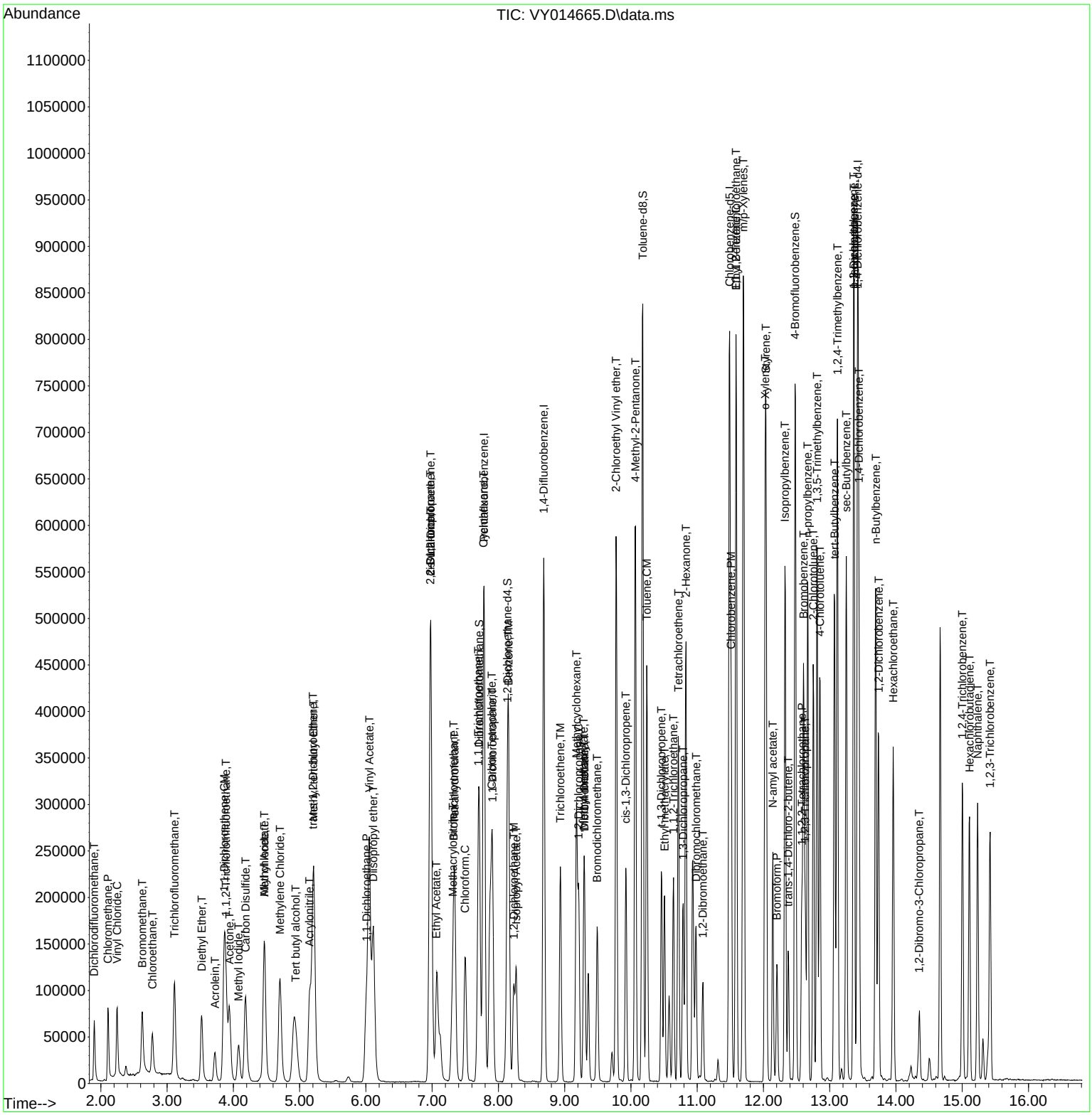
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Data File : VY014665.D
Acq On : 17 Jul 2023 12:23
Operator : SY/MD
Sample : VY0717SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

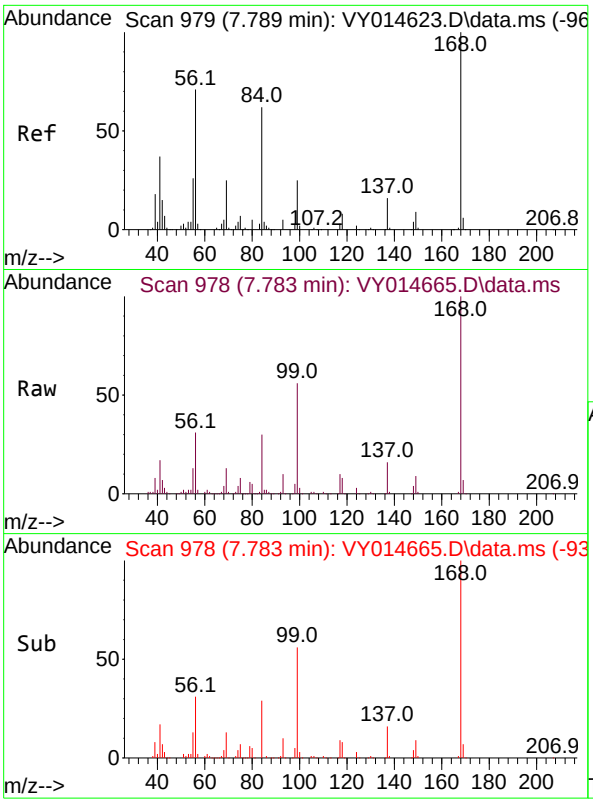
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QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
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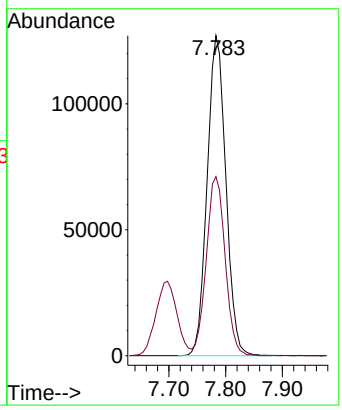




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:168 Resp: 29064

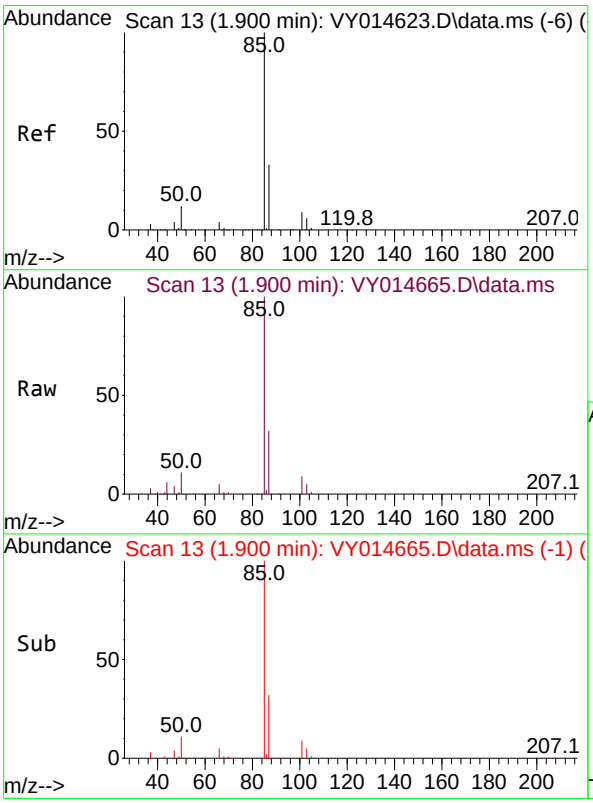
Ion	Ratio	Lower	Upper
168	100		
99	55.9	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

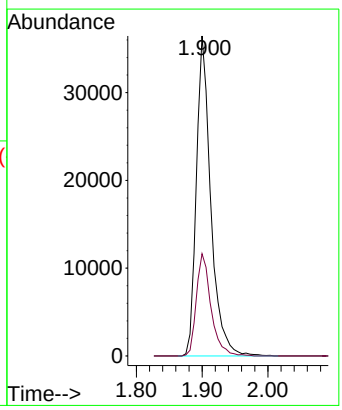
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

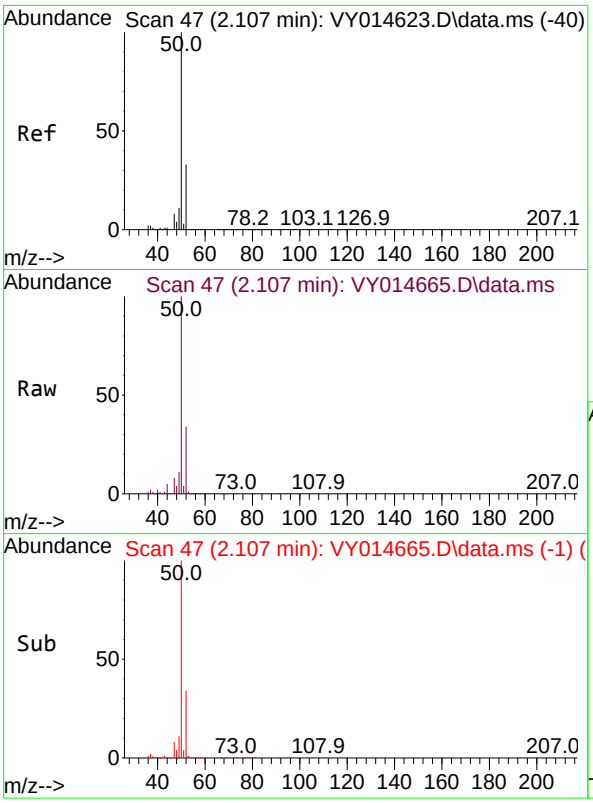


#2
Dichlorodifluoromethane
Concen: 23.481 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 85 Resp: 55602

Ion	Ratio	Lower	Upper
85	100		
87	31.9	15.6	46.8

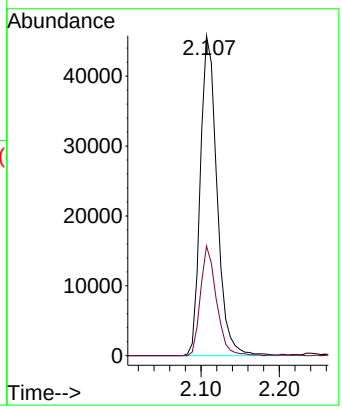




#3
Chloromethane
Concen: 25.425 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 50 Resp: 6767

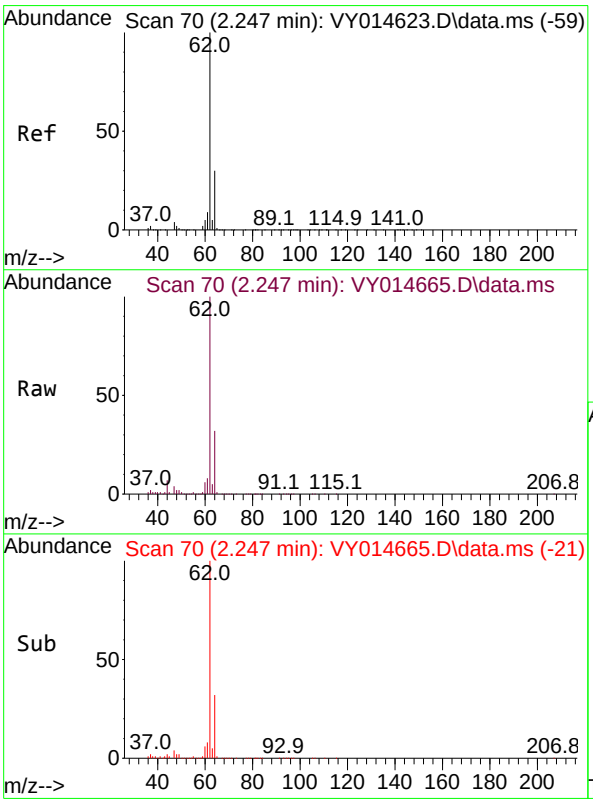
Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

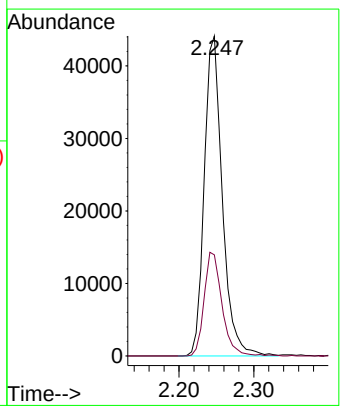
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

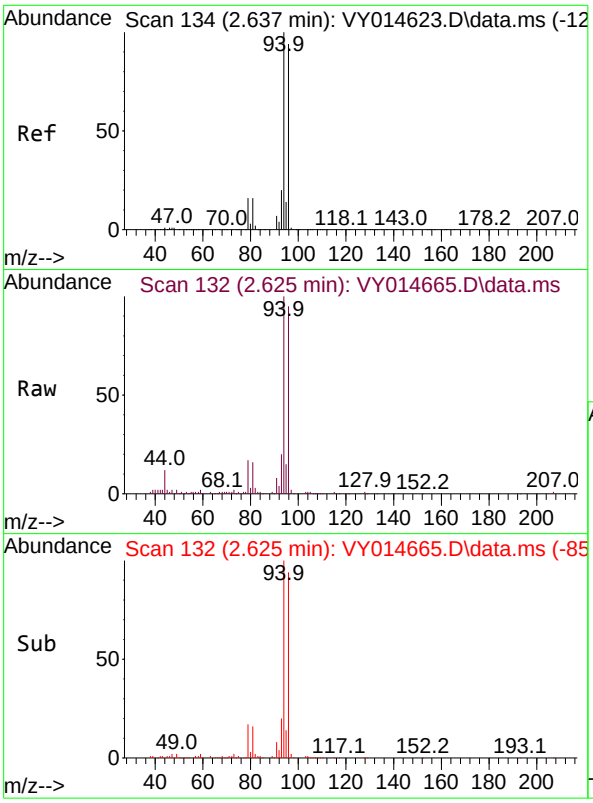


#4
Vinyl Chloride
Concen: 24.894 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 62 Resp: 74056

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.3	36.5

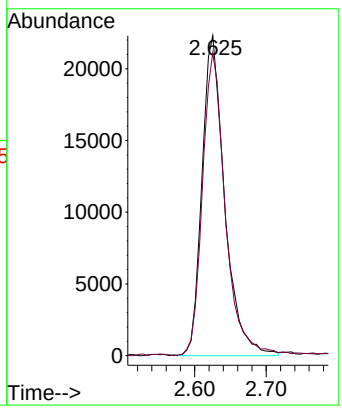




#5
Bromomethane
Concen: 24.977 ug/l
RT: 2.625 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 94 Resp: 4910

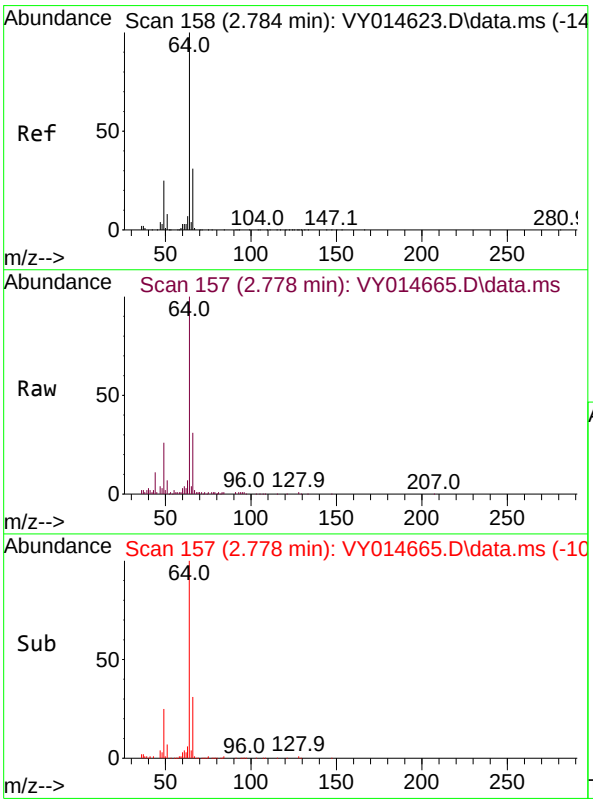
Ion	Ratio	Lower	Upper
94	100		
96	94.3	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

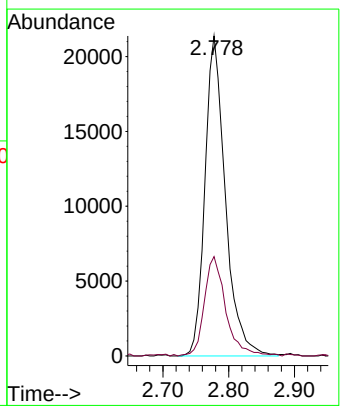
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

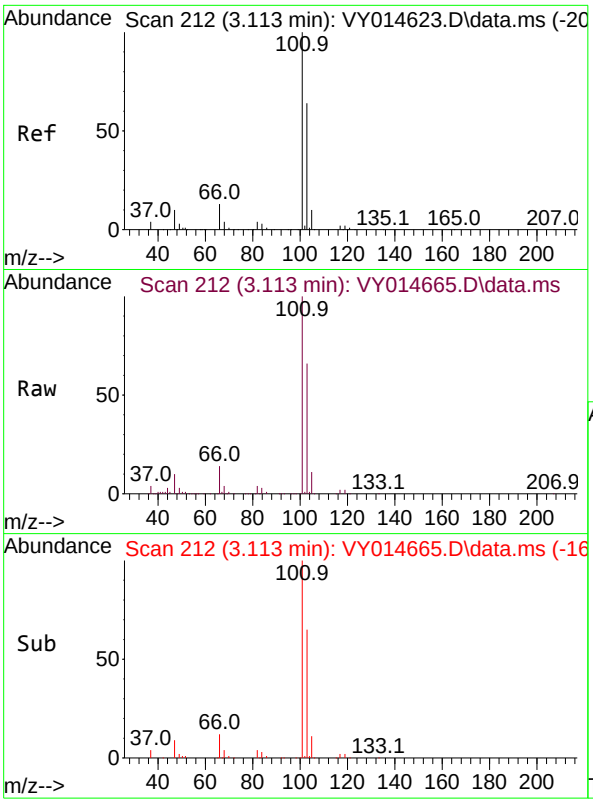


#6
Chloroethane
Concen: 24.853 ug/l
RT: 2.778 min Scan# 157
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 64 Resp: 46182

Ion	Ratio	Lower	Upper
64	100		
66	31.0	24.4	36.6





#7
Trichlorofluoromethane
Concen: 22.172 ug/l
RT: 3.113 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

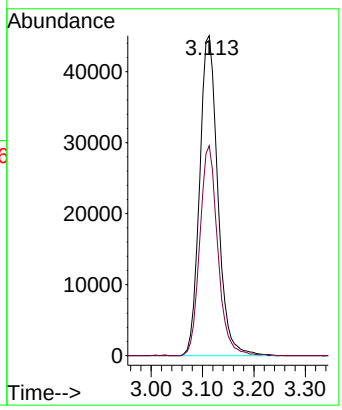
Tgt Ion:101 Resp: 11077

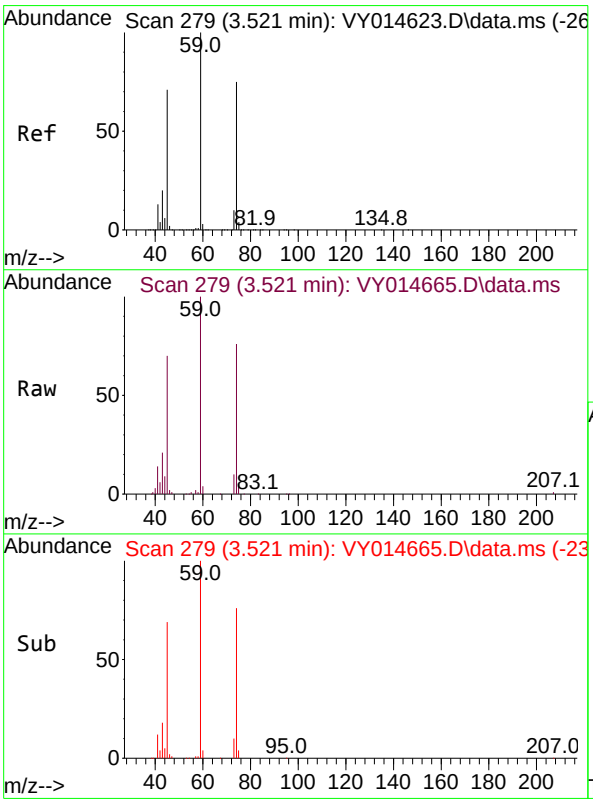
Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.4	77.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

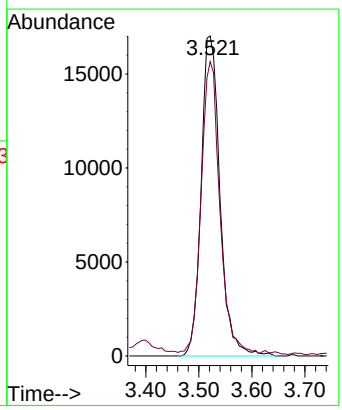


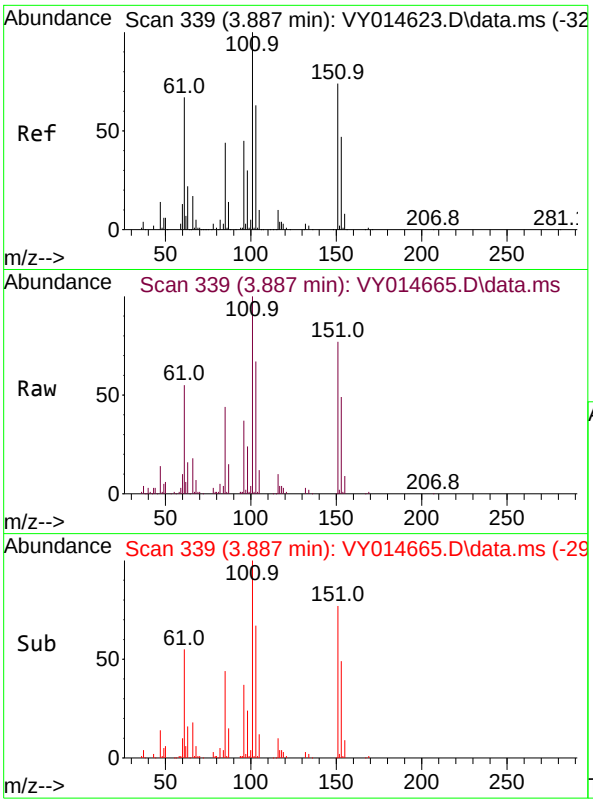


#8
Diethyl Ether
Concen: 22.599 ug/l
RT: 3.521 min Scan# 279
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 74 Resp: 42011

Ion	Ratio	Lower	Upper
74	100		
45	90.2	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.687 ug/l
RT: 3.887 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

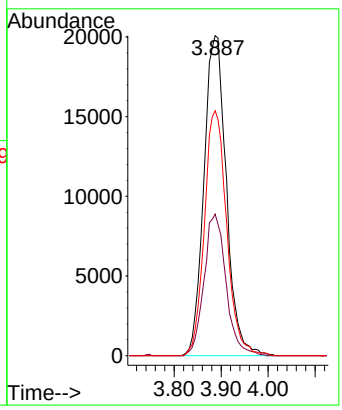
Tgt Ion:101 Resp: 6641

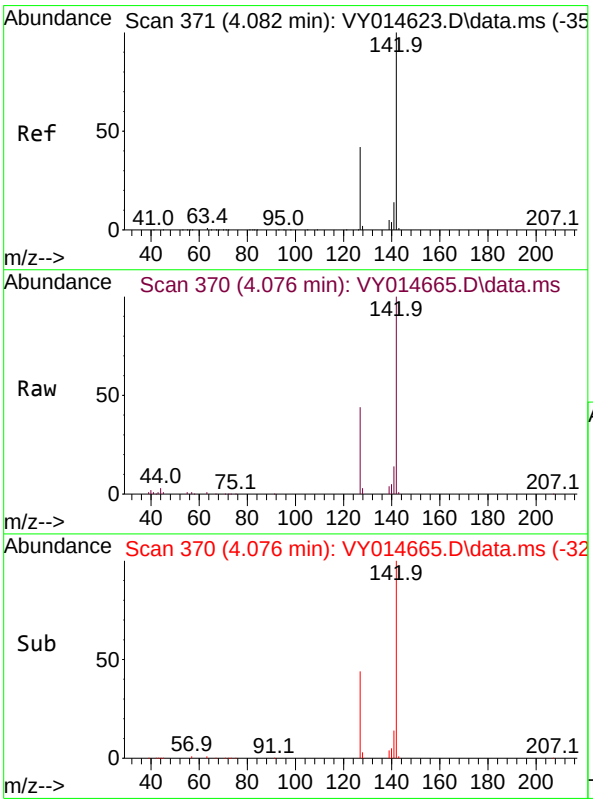
Ion	Ratio	Lower	Upper
101	100		
85	43.5	36.6	55.0
151	76.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

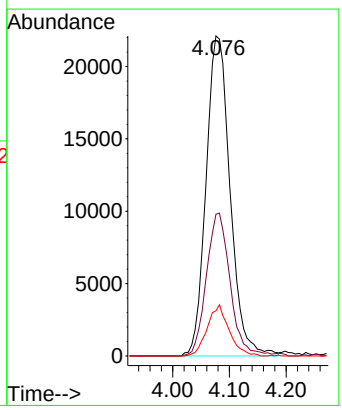


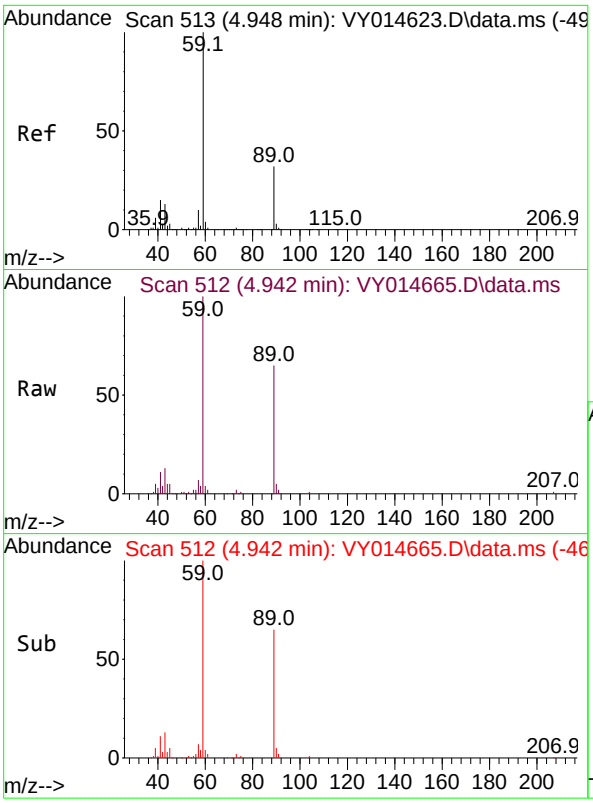


#10
Methyl Iodide
Concen: 21.475 ug/l
RT: 4.076 min Scan# 370
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:142 Resp: 65107

Ion	Ratio	Lower	Upper
142	100		
127	44.0	37.6	56.4
141	14.5	11.8	17.8

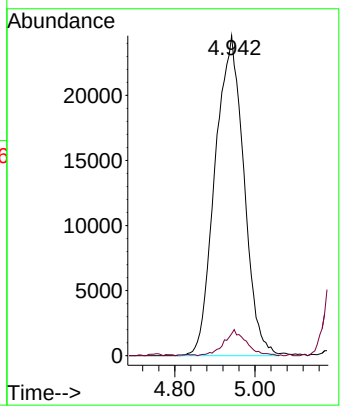




#11
Tert butyl alcohol
Concen: 171.164 ug/l
RT: 4.942 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 59 Resp: 12237

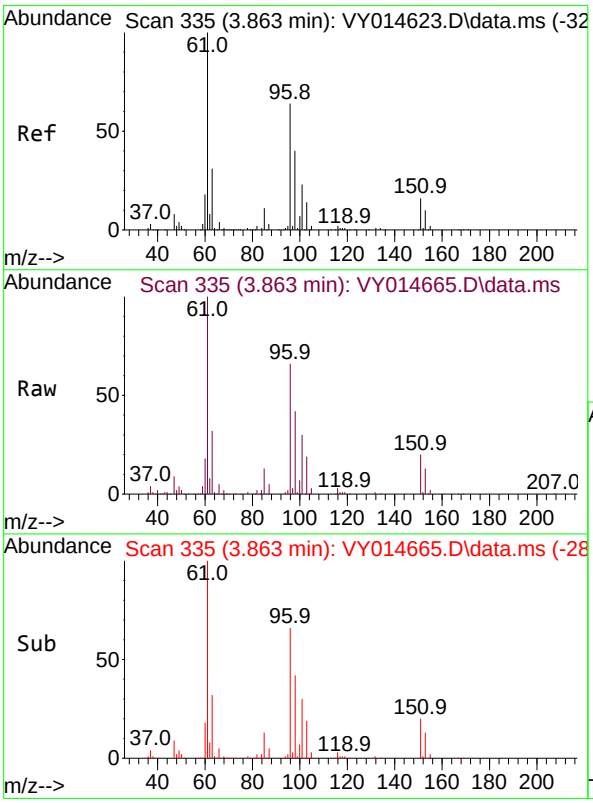
Ion	Ratio	Lower	Upper
59	100		
57	6.3	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

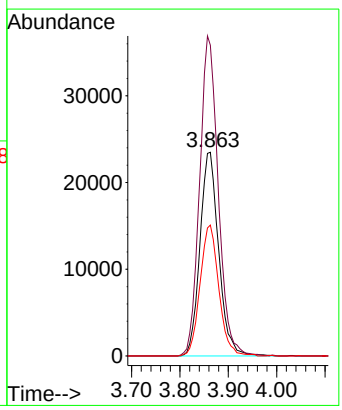
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

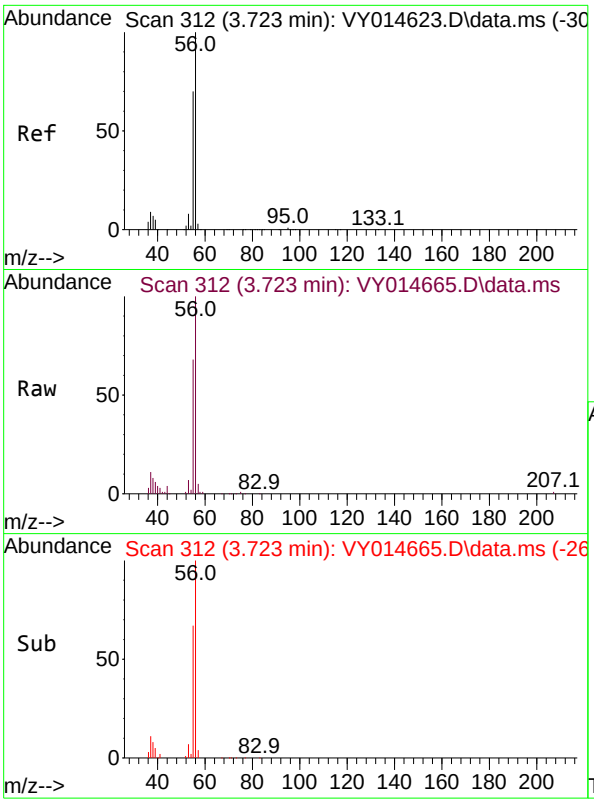


#12
1,1-Dichloroethene
Concen: 22.085 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 96 Resp: 63211

Ion	Ratio	Lower	Upper
96	100		
61	152.5	136.4	204.6
98	64.3	49.4	74.2





#13
Acrolein
Concen: 110.931 ug/l
RT: 3.723 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

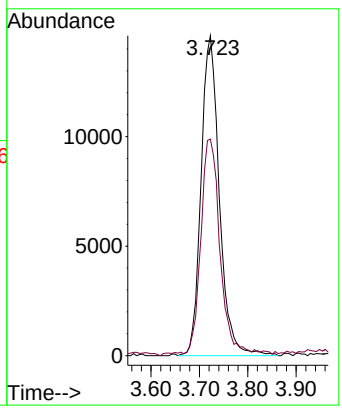
Tgt Ion: 56 Resp: 3840

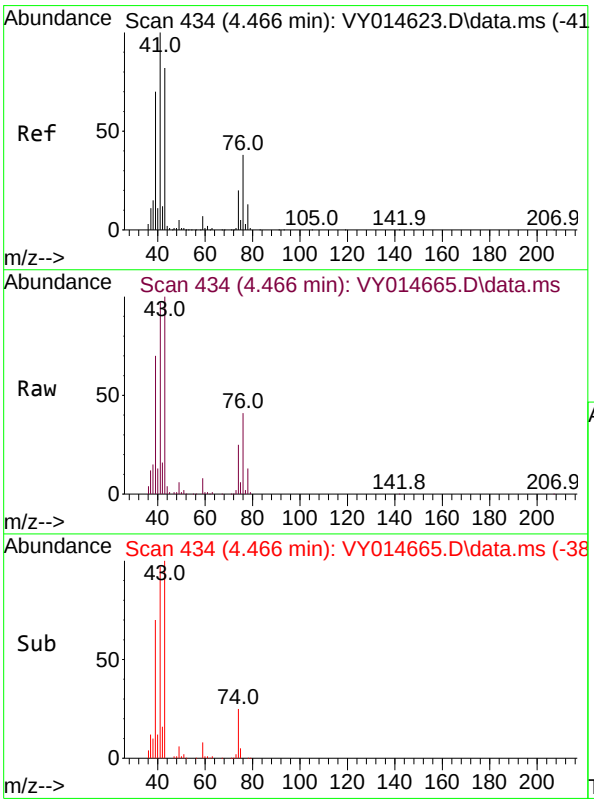
Ion	Ratio	Lower	Upper
56	100		
55	68.8	57.0	85.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

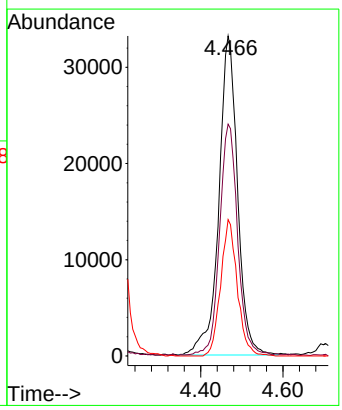


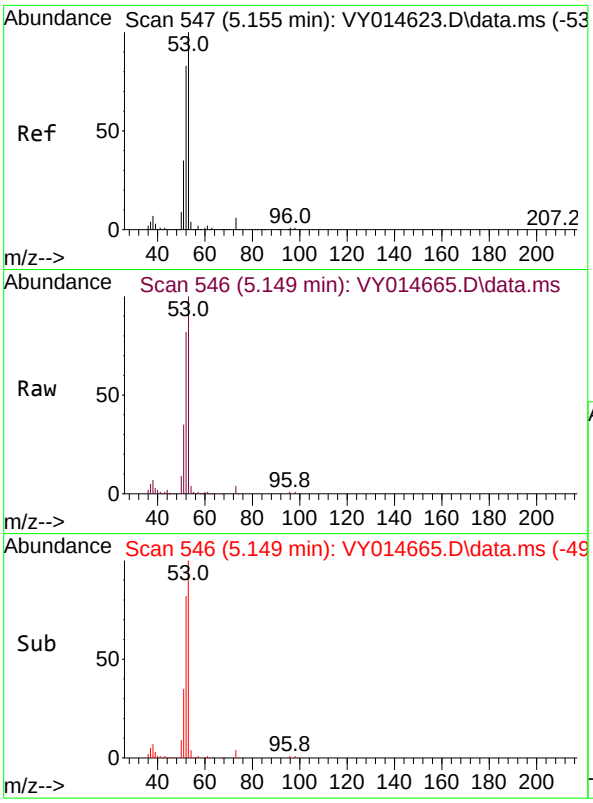


#14
Allyl chloride
Concen: 20.644 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 41 Resp: 104910

Ion	Ratio	Lower	Upper
41	100		
39	70.1	58.0	87.0
76	38.0	27.4	41.2

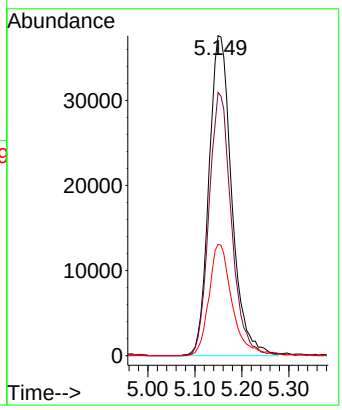




#15
Acrylonitrile
Concen: 123.584 ug/l
RT: 5.149 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 53 Resp: 12668

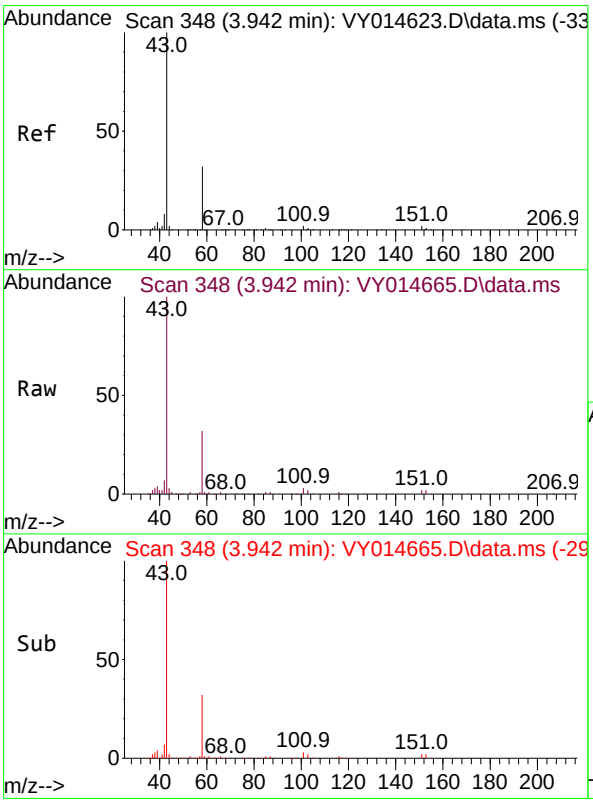
Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.9	100.3
51	35.3	29.8	44.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

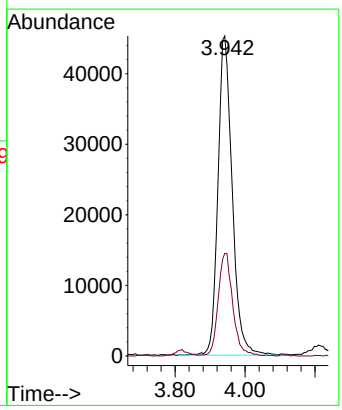
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

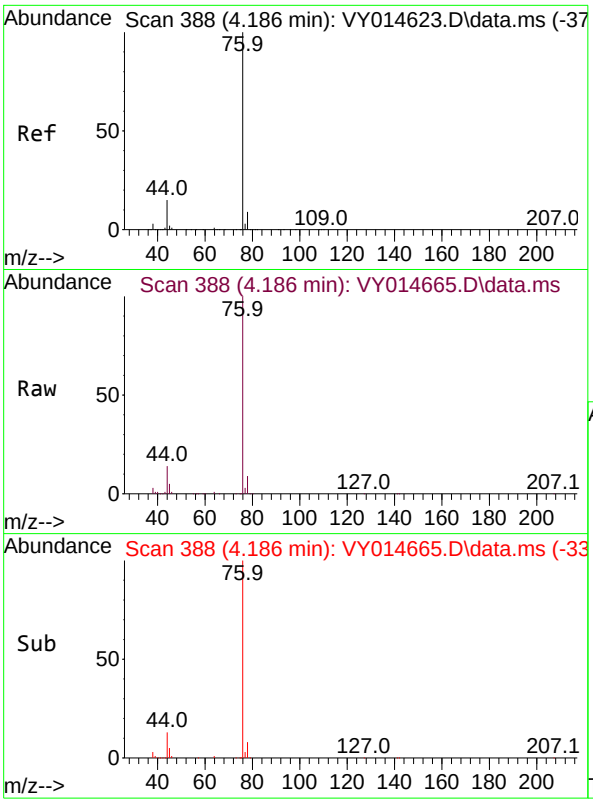


#16
Acetone
Concen: 121.897 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 43 Resp: 127936

Ion	Ratio	Lower	Upper
43	100		
58	32.1	22.7	34.1

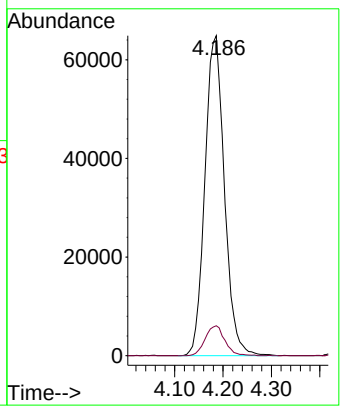




#17
Carbon Disulfide
Concen: 22.190 ug/l
RT: 4.186 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 76 Resp: 18183

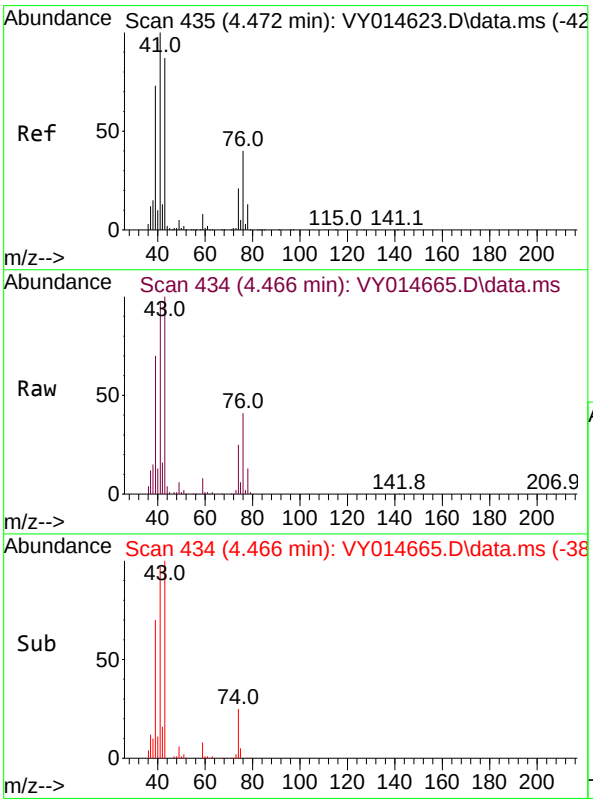
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

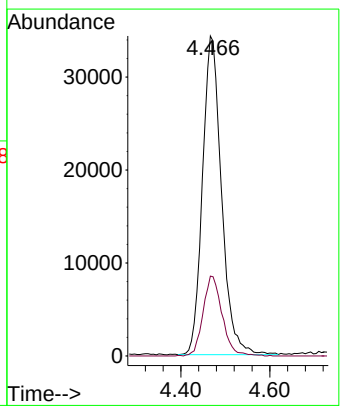
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

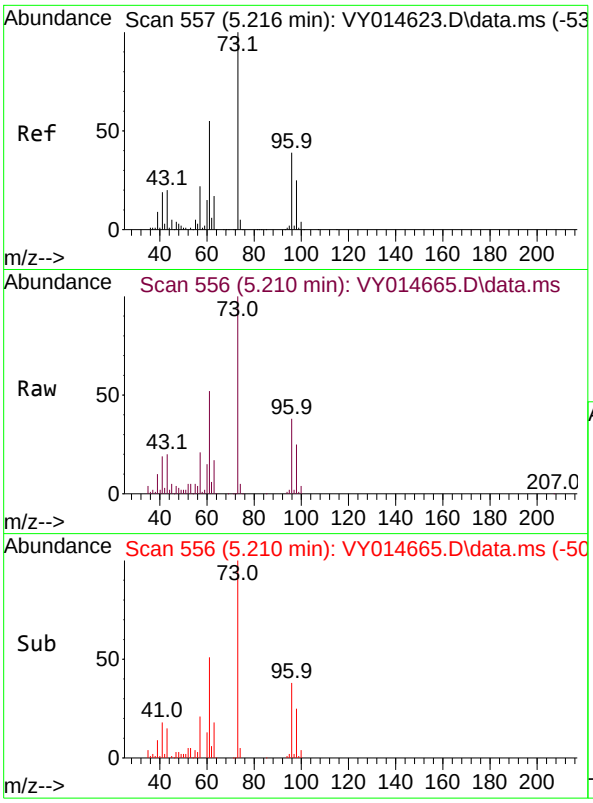


#18
Methyl Acetate
Concen: 25.371 ug/l
RT: 4.466 min Scan# 434
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 43 Resp: 102185

Ion	Ratio	Lower	Upper
43	100		
74	25.2	17.4	26.0





#19
Methyl tert-butyl Ether
Concen: 23.367 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

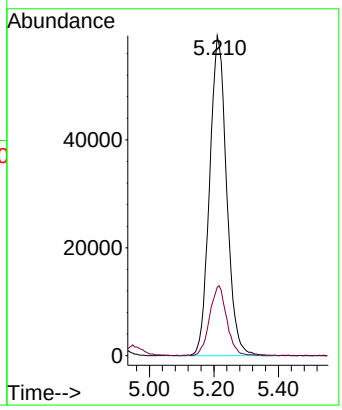
Tgt Ion: 73 Resp: 21724

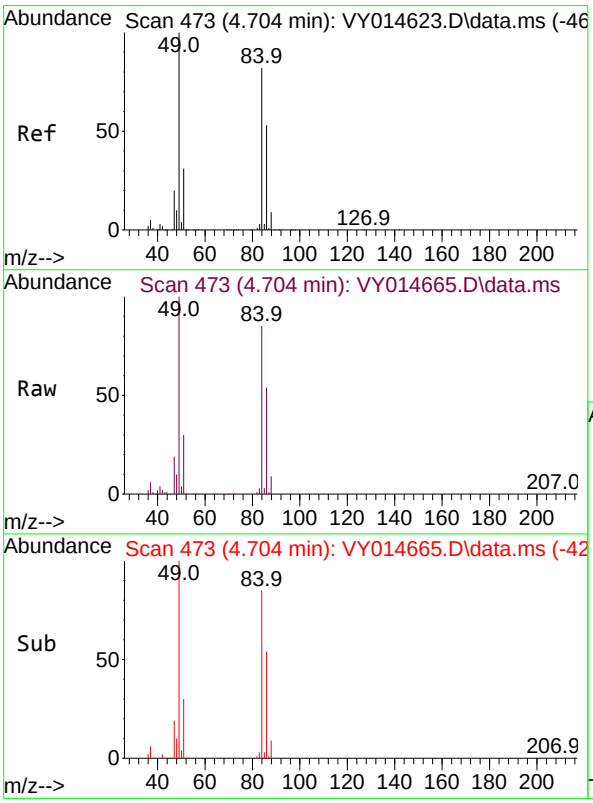
Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.3	25.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

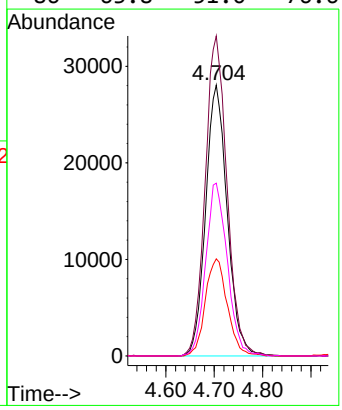


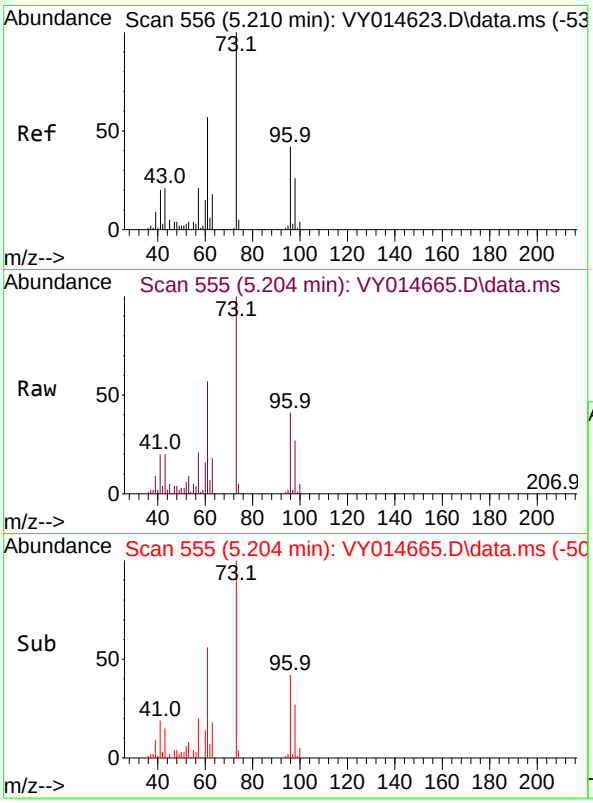


#20
Methylene Chloride
Concen: 23.320 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 84 Resp: 87193

Ion	Ratio	Lower	Upper
84	100		
49	118.1	106.9	160.3
51	35.8	33.2	49.8
86	63.8	51.0	76.6





#21
trans-1,2-Dichloroethene
Concen: 22.372 ug/l
RT: 5.204 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

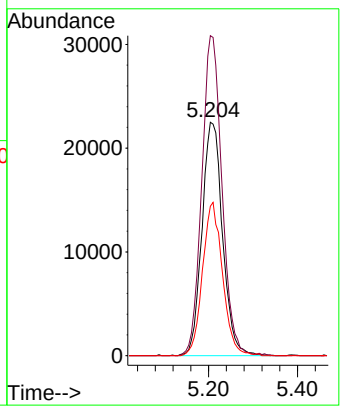
Tgt Ion: 96 Resp: 7266

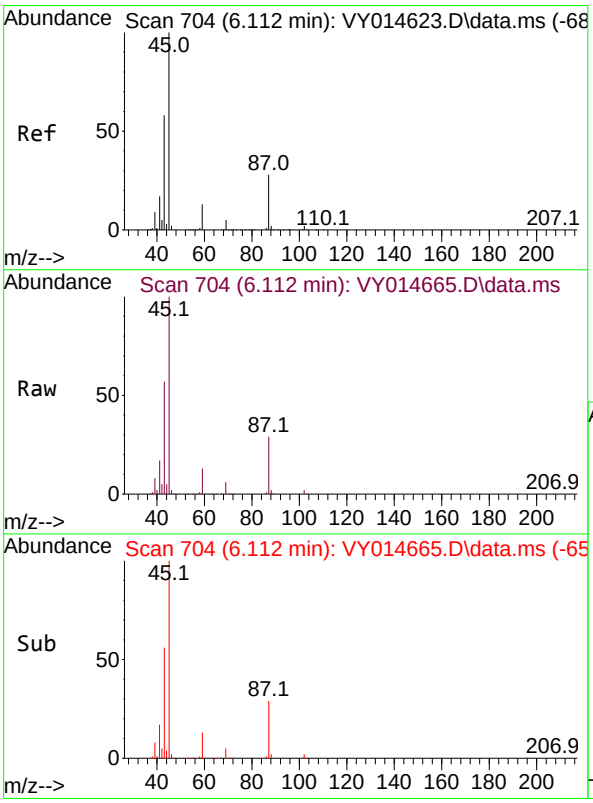
Ion	Ratio	Lower	Upper
96	100		
61	137.1	110.2	165.4
98	64.0	51.8	77.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

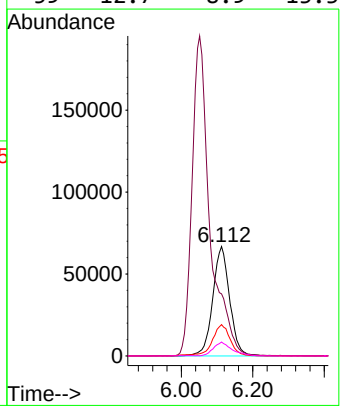


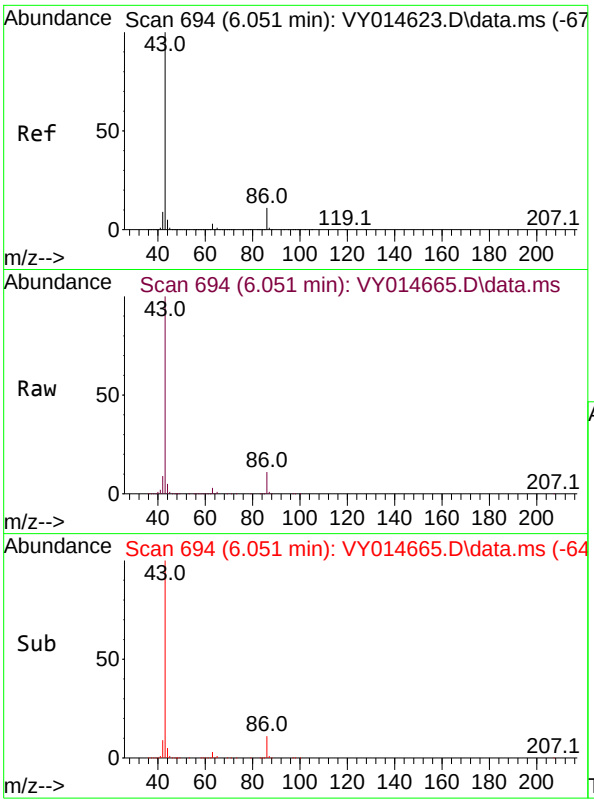


#22
Diisopropyl ether
Concen: 21.254 ug/l
RT: 6.112 min Scan# 704
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 45 Resp: 219590

Ion	Ratio	Lower	Upper
45	100		
43	56.4	52.2	78.4
87	28.6	21.0	31.6
59	12.7	8.9	13.3

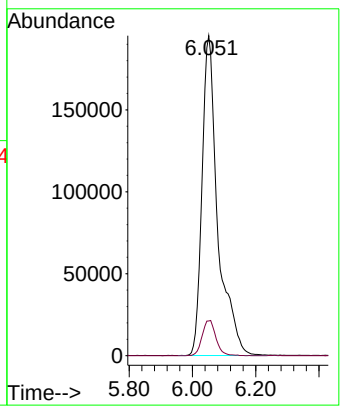




#23
Vinyl Acetate
Concen: 109.407 ug/l
RT: 6.051 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 43 Resp: 67645

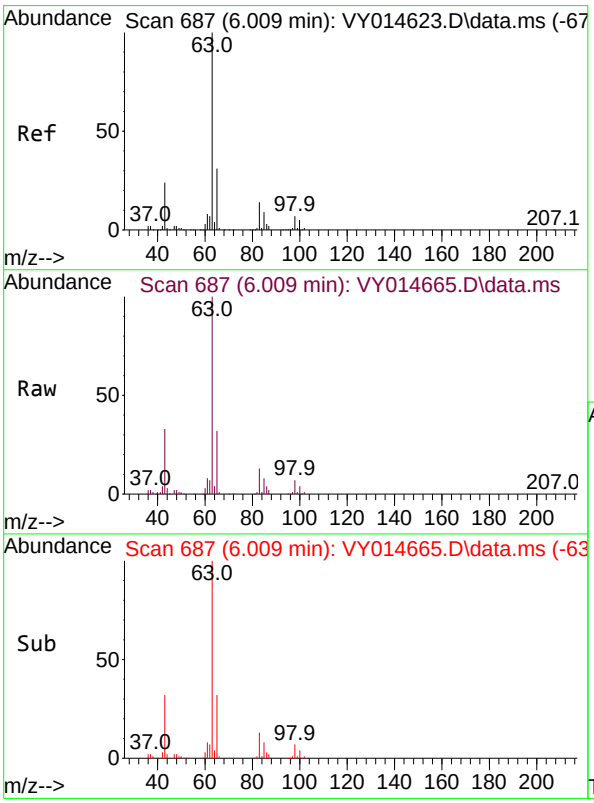
Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.5	11.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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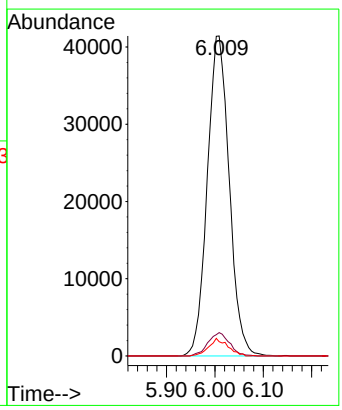
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

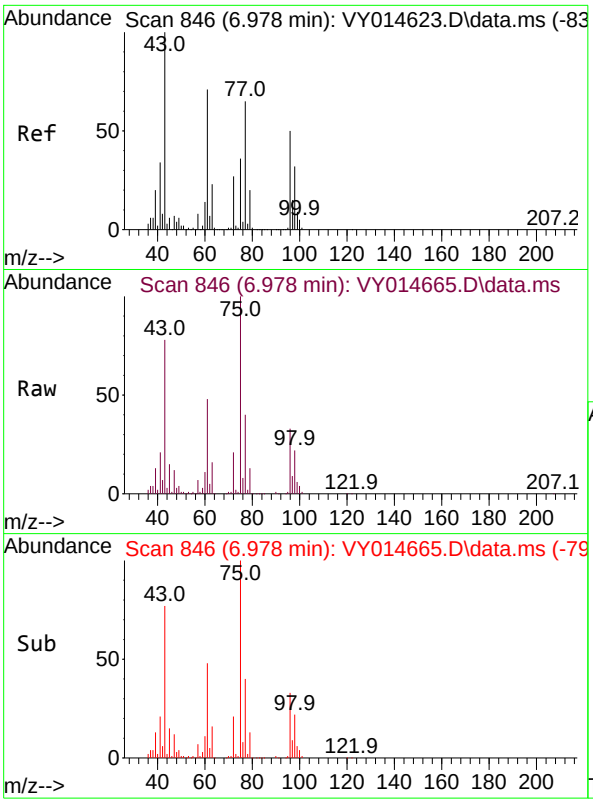


#24
1,1-Dichloroethane
Concen: 22.060 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 63 Resp: 130414

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.1	9.4
100	4.4	1.8	5.5





#25
2-Butanone
Concen: 127.982 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

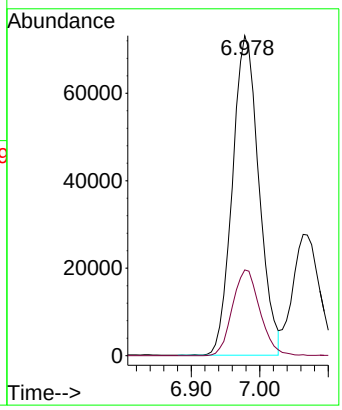
Tgt Ion: 43 Resp: 19651

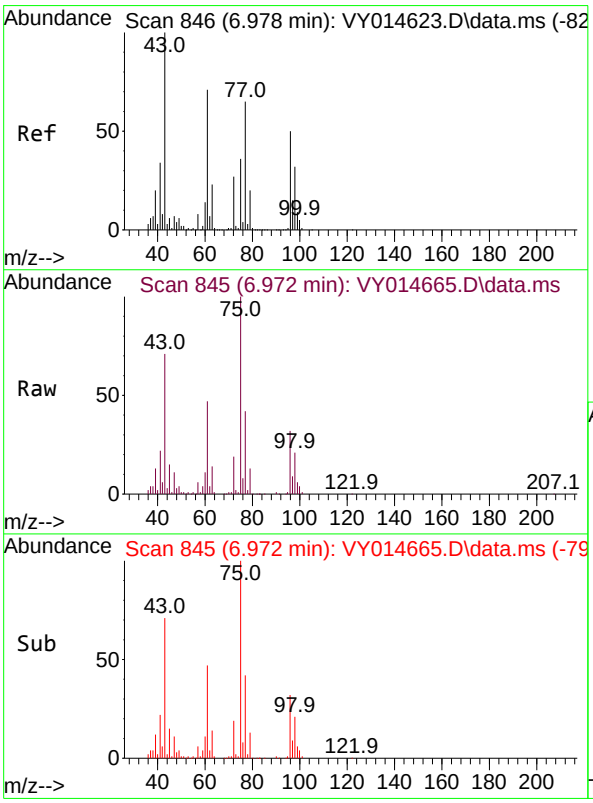
Ion	Ratio	Lower	Upper
43	100		
72	26.8	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

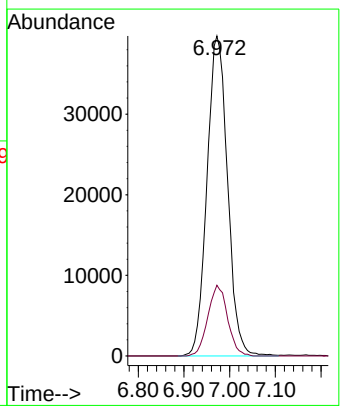


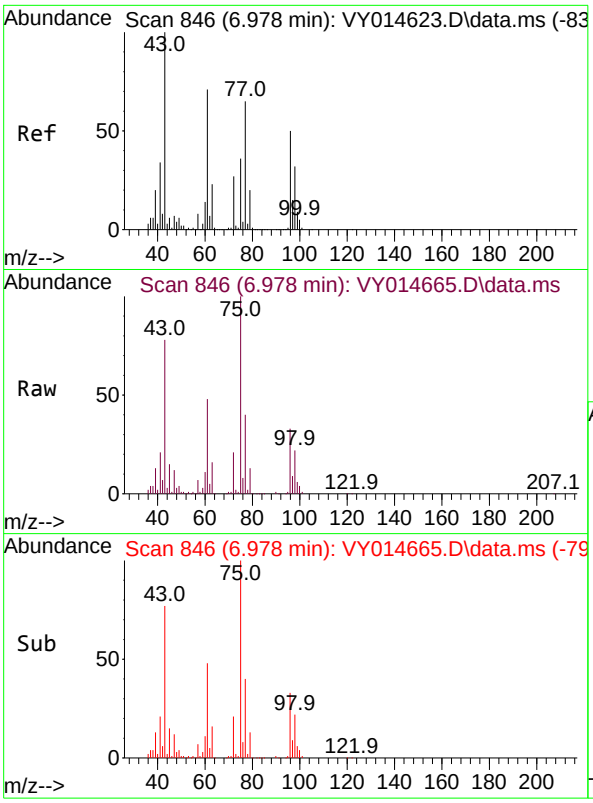


#26
2,2-Dichloropropane
Concen: 22.028 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 77 Resp: 124111

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 22.894 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

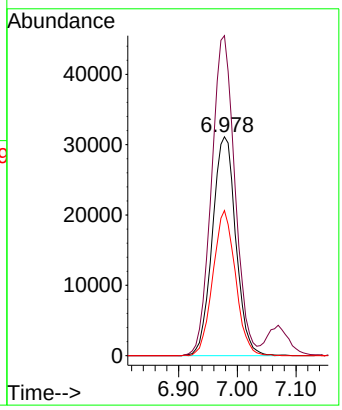
Tgt Ion: 96 Resp: 8655

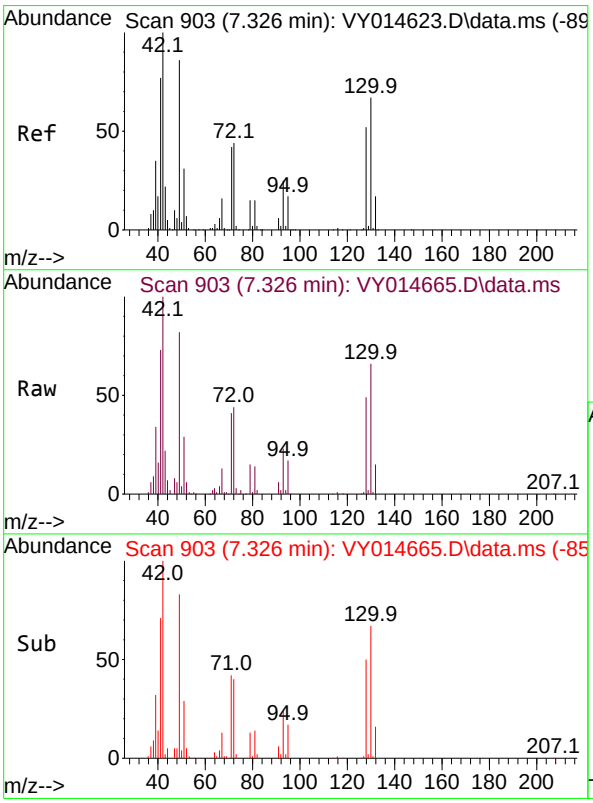
Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	301.4
98	63.8	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

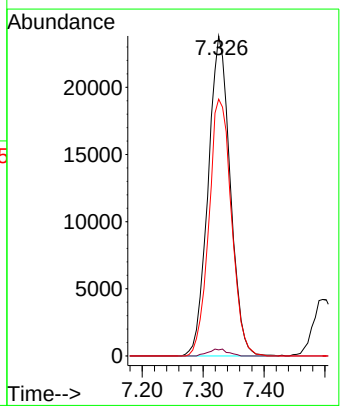


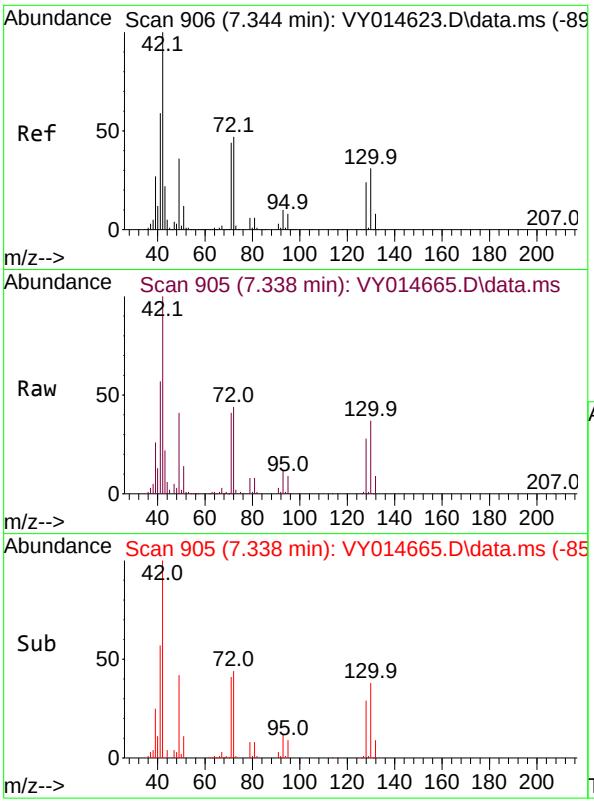


#28
Bromochloromethane
Concen: 23.554 ug/l
RT: 7.326 min Scan# 903
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 49 Resp: 59970

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	81.7	60.7	91.1





#29
Tetrahydrofuran
Concen: 126.748 ug/l
RT: 7.338 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

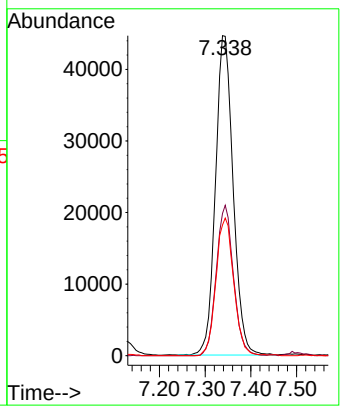
Tgt Ion: 42 Resp: 11983

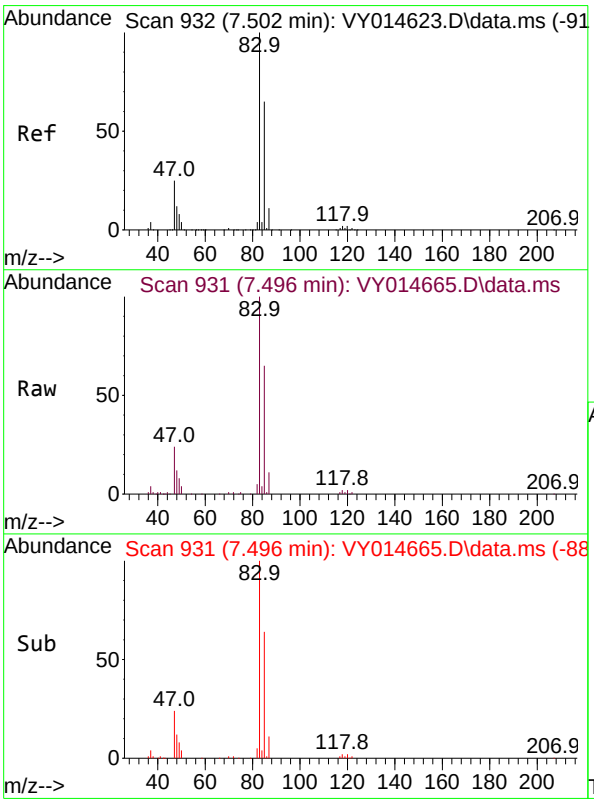
Ion	Ratio	Lower	Upper
42	100		
72	45.9	32.8	49.2
71	43.3	31.0	46.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

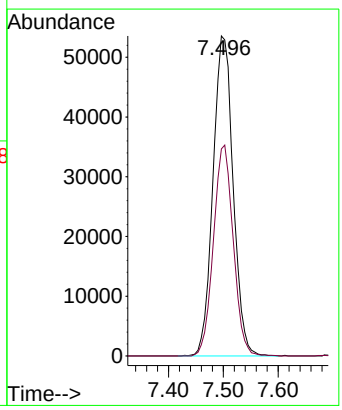


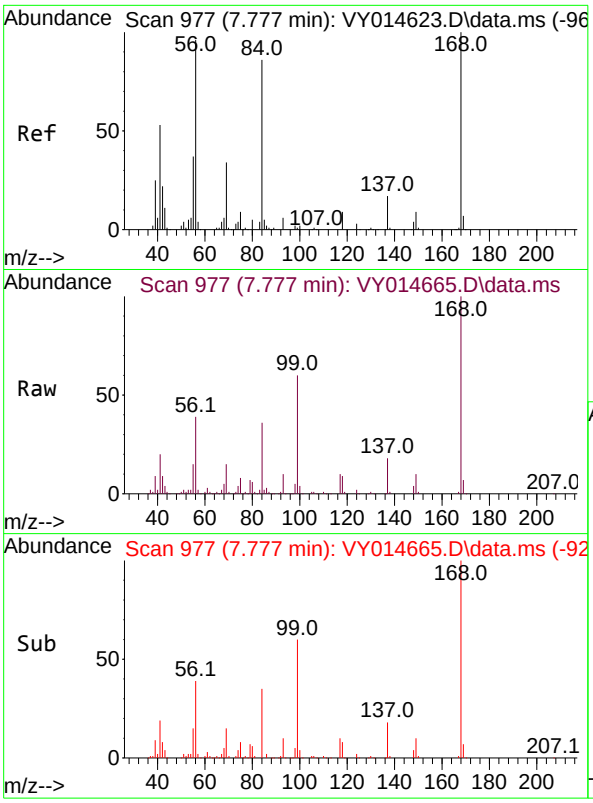


#30
Chloroform
Concen: 22.409 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 83 Resp: 136607

Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.7	74.5

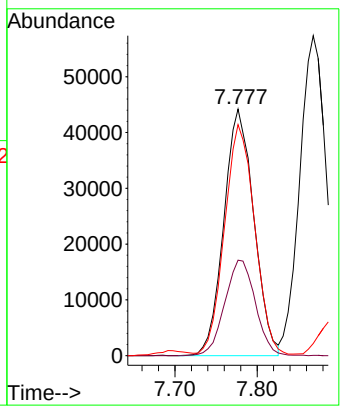




#31
Cyclohexane
Concen: 20.453 ug/l
RT: 7.777 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 56 Resp: 11245

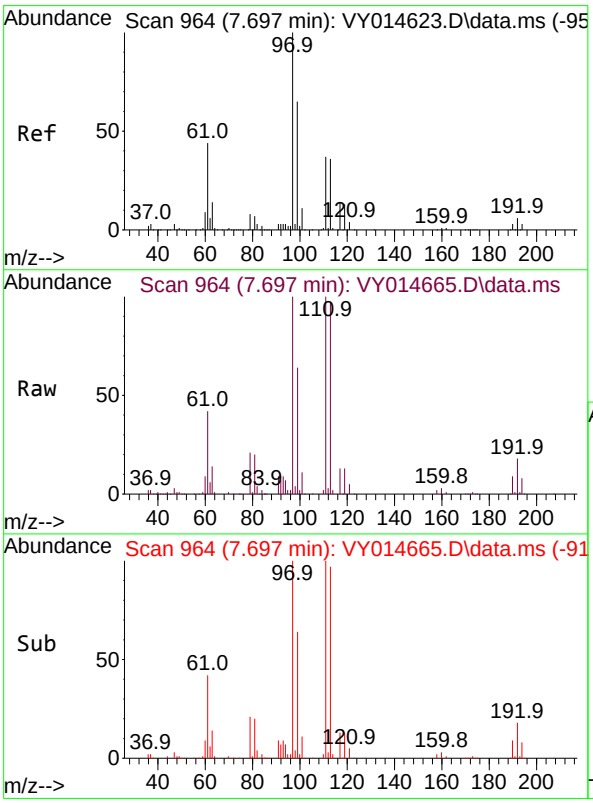
Ion	Ratio	Lower	Upper
56	100		
69	38.8	27.8	41.6
84	92.0	66.4	99.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

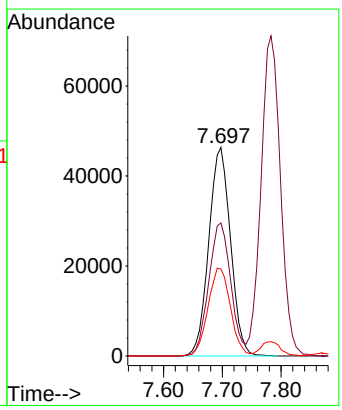
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

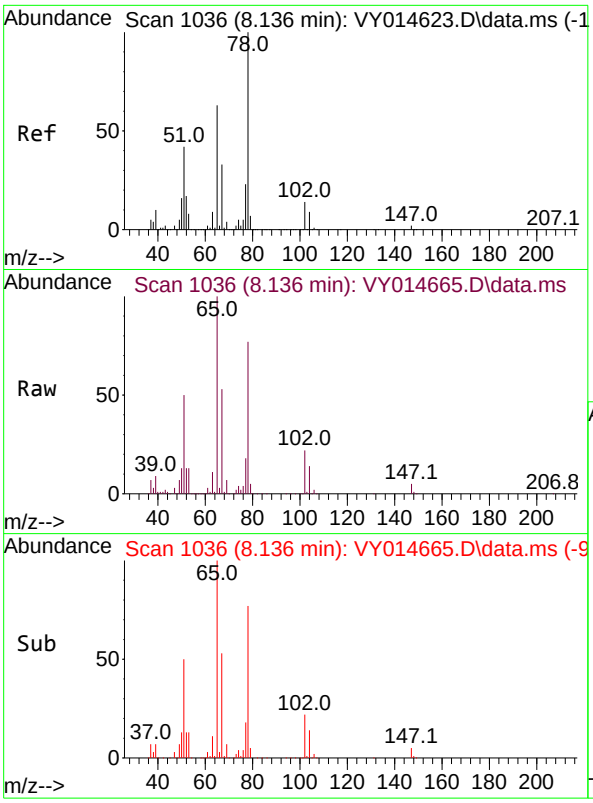


#32
1,1,1-Trichloroethane
Concen: 21.723 ug/l
RT: 7.697 min Scan# 964
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 97 Resp: 119185

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.8	76.2
61	43.4	35.1	52.7

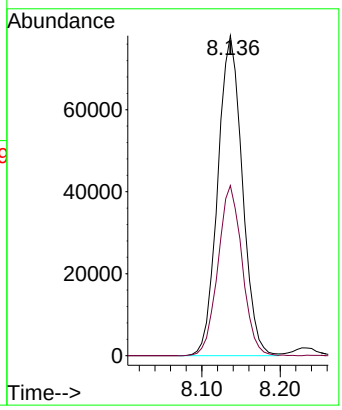




#33
1,2-Dichloroethane-d4
Concen: 51.316 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 65 Resp: 16996

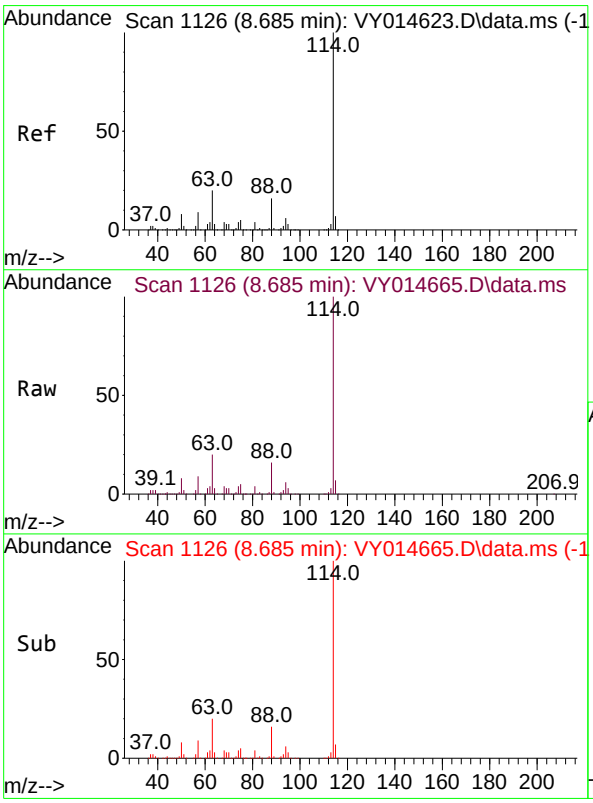
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

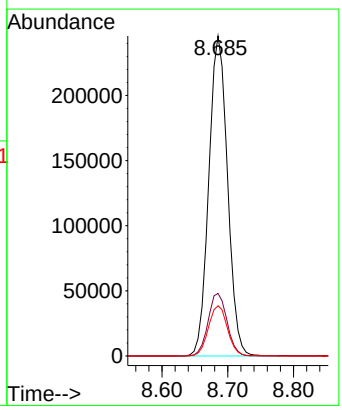
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

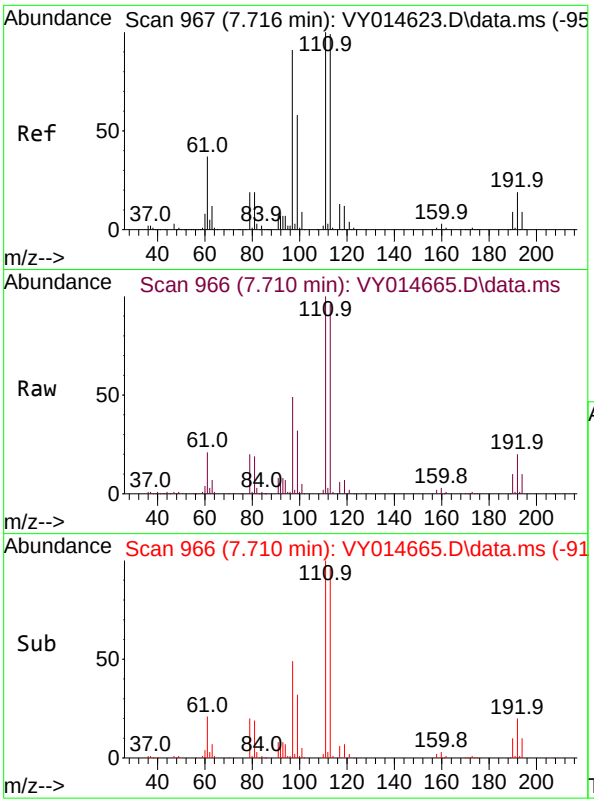


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:114 Resp: 486967

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	42.4
88	15.7	0.0	30.6

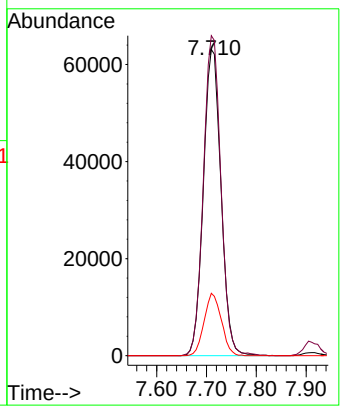




#35
Dibromofluoromethane
Concen: 50.013 ug/l
RT: 7.710 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:113 Resp: 15503

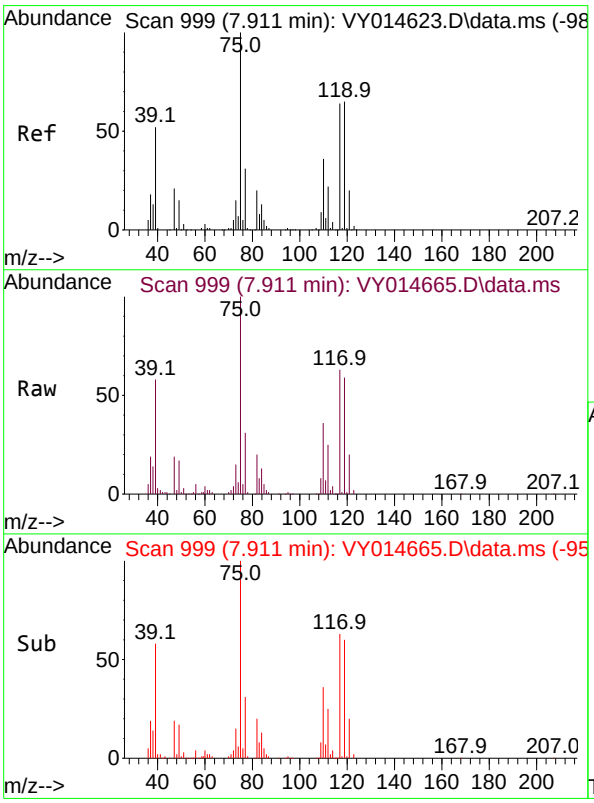
Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.3	121.9
192	19.9	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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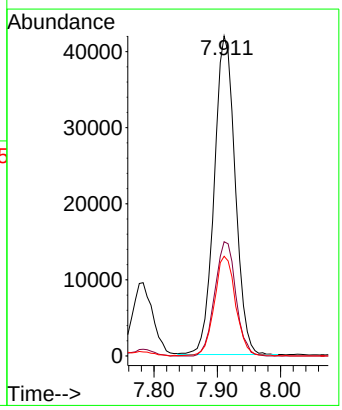
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

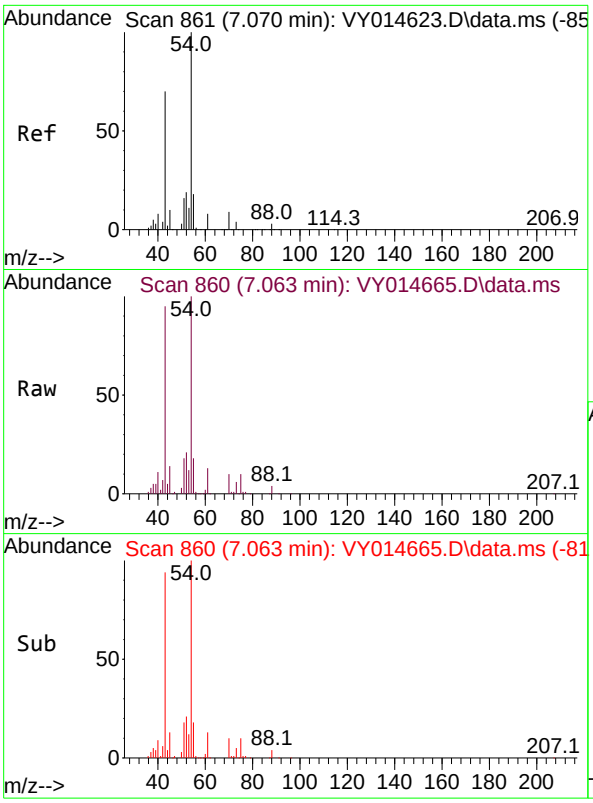


#36
1,1-Dichloropropene
Concen: 20.738 ug/l
RT: 7.911 min Scan# 999
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 75 Resp: 96136

Ion	Ratio	Lower	Upper
75	100		
110	36.1	17.8	53.5
77	32.0	24.4	36.6





#37
Ethyl Acetate
Concen: 24.423 ug/l
RT: 7.063 min Scan# 8
Delta R.T. -0.007 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

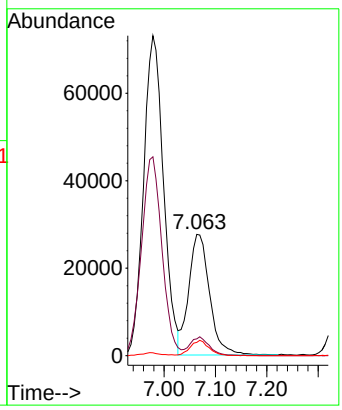
Tgt Ion: 43 Resp: 7795

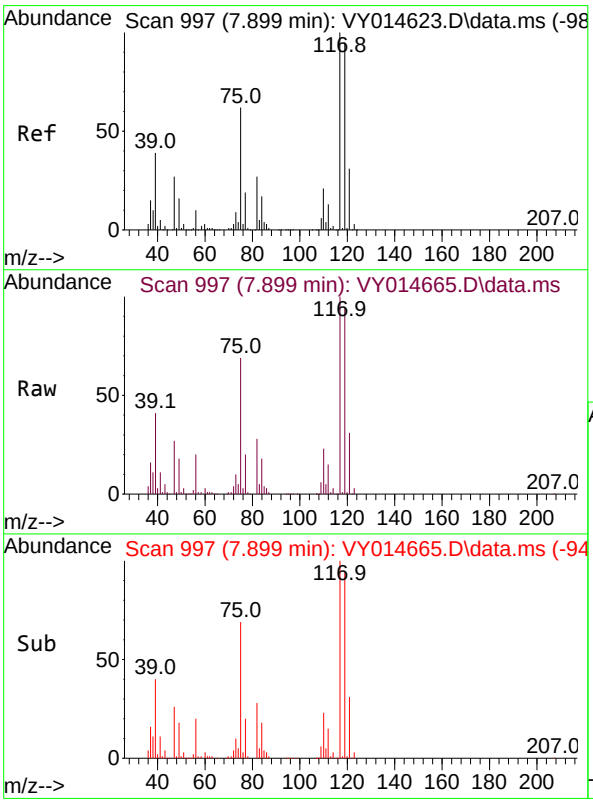
Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.1	15.1
70	10.9	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

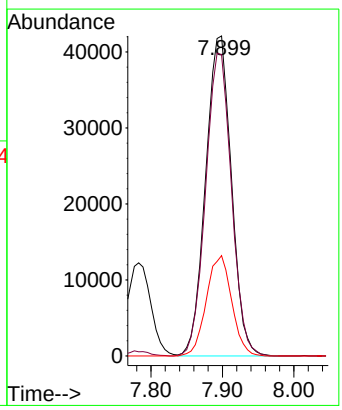


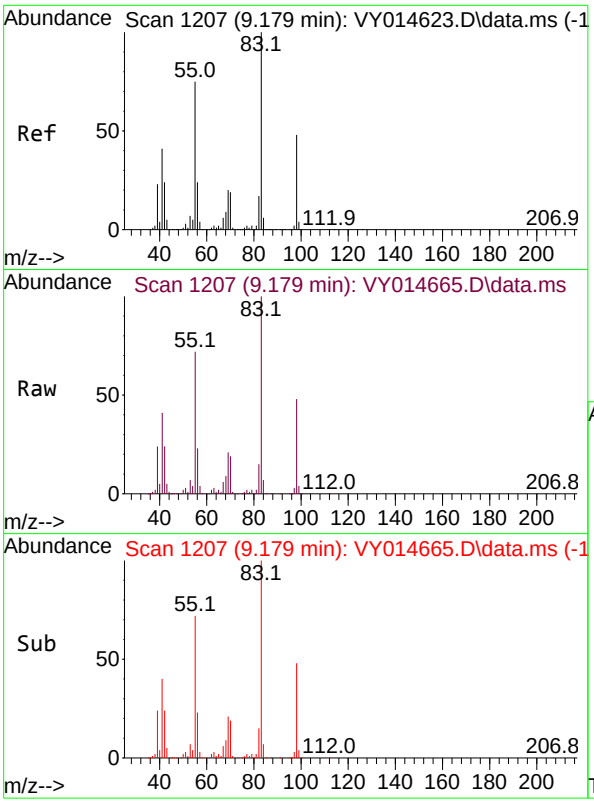


#38
Carbon Tetrachloride
Concen: 21.544 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:117 Resp: 105577

Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.4	114.6
121	31.4	25.8	38.6





#39
Methylcyclohexane
Concen: 20.663 ug/l
RT: 9.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

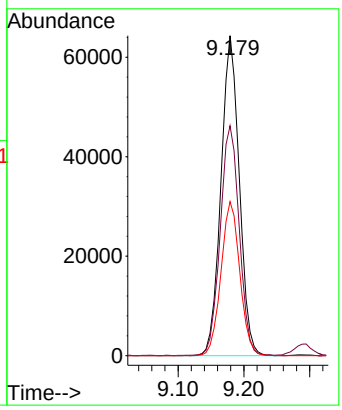
Tgt Ion: 83 Resp: 12479

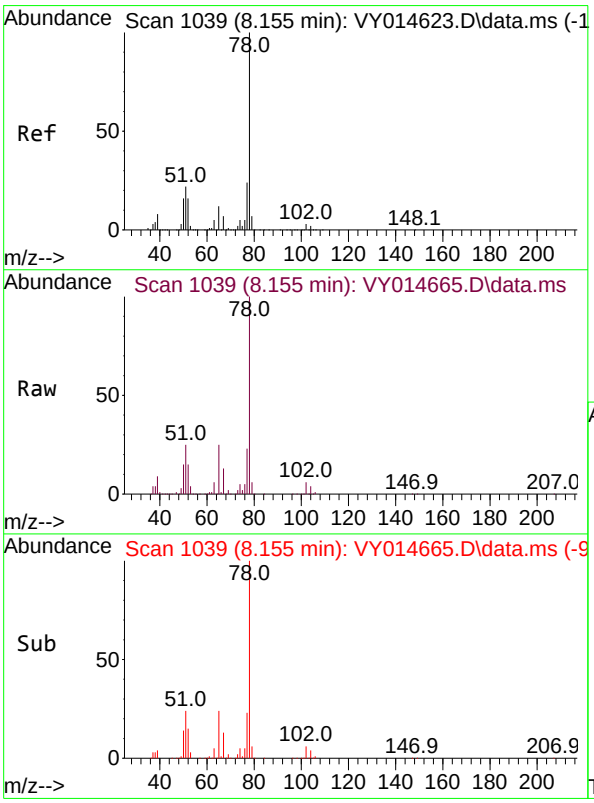
Ion	Ratio	Lower	Upper
83	100		
55	71.7	63.0	94.4
98	48.1	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

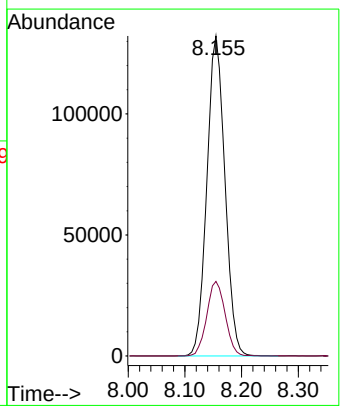


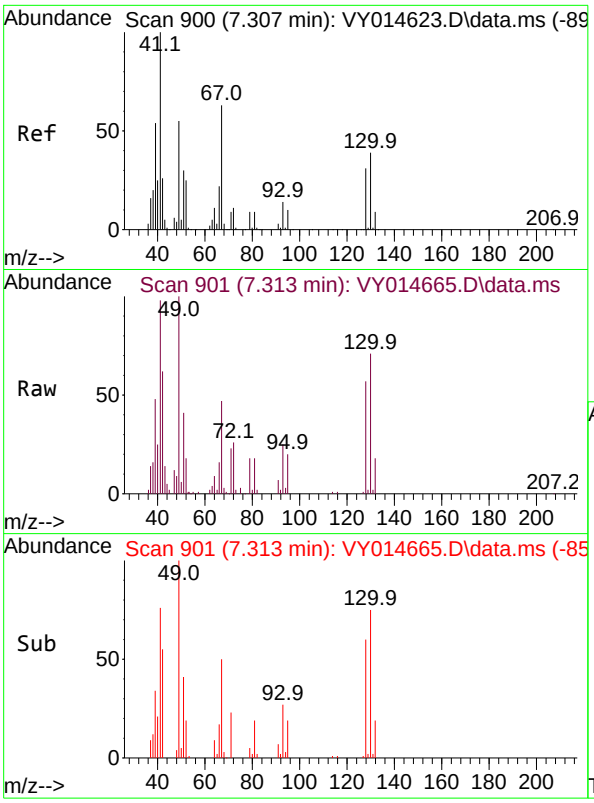


#40
Benzene
Concen: 22.170 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 78 Resp: 292302

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6

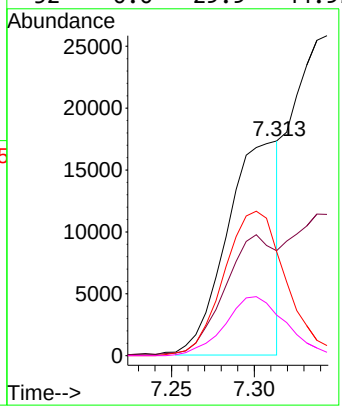




#41
Methacrylonitrile
Concen: 22.786 ug/l m
RT: 7.313 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 41 Resp: 3740

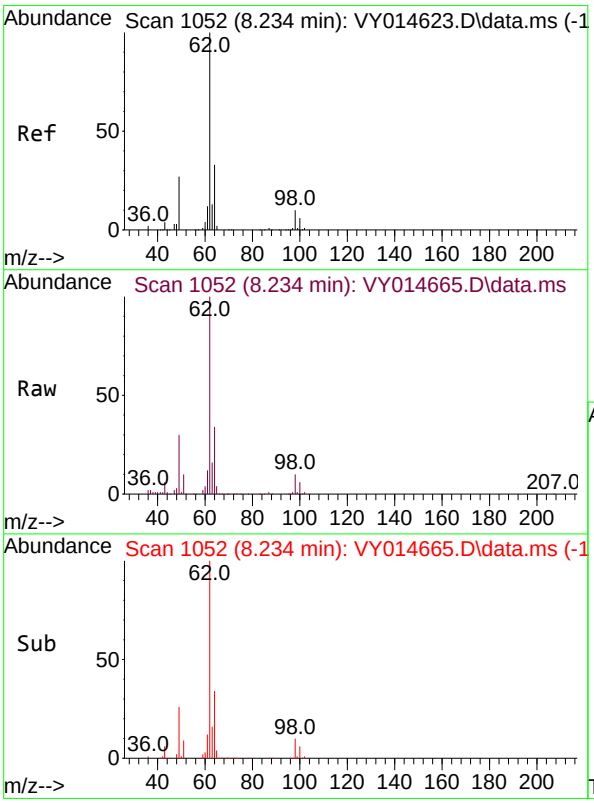
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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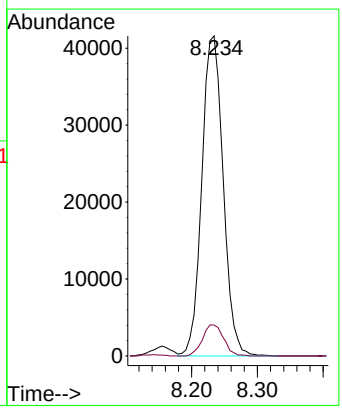
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

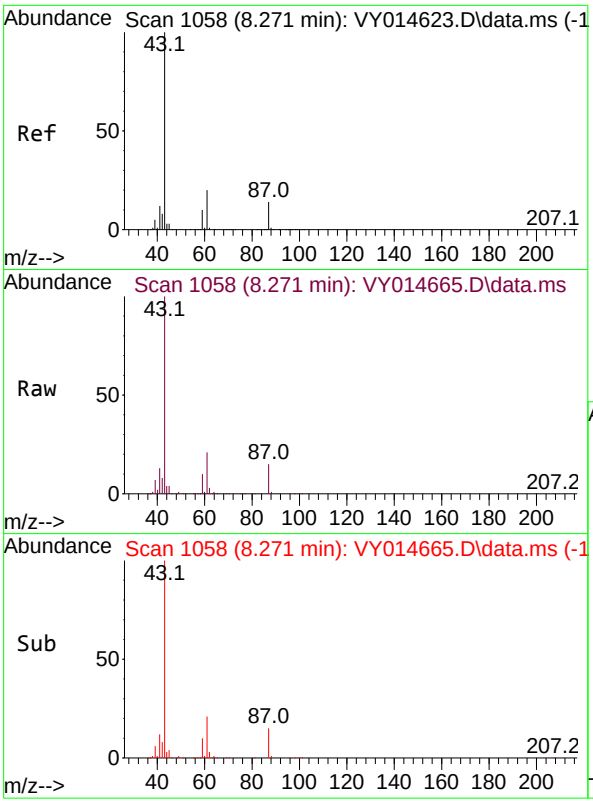


#42
1,2-Dichloroethane
Concen: 22.541 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 62 Resp: 94114

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	15.8

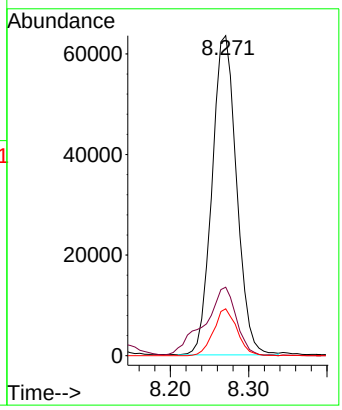




#43
Isopropyl Acetate
Concen: 22.722 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

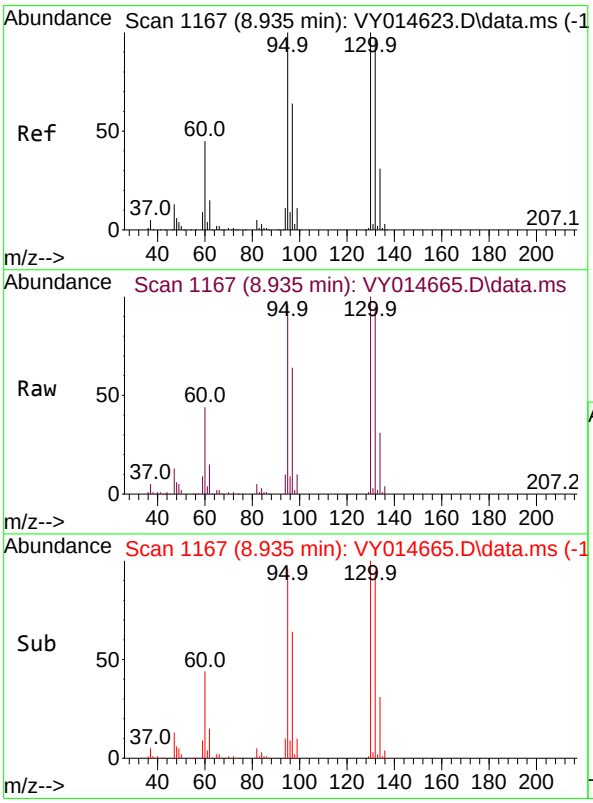
Tgt Ion: 43 Resp: 13814

Ion	Ratio	Lower	Upper
43	100		
61	28.2	21.1	31.7
87	14.1	9.8	14.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

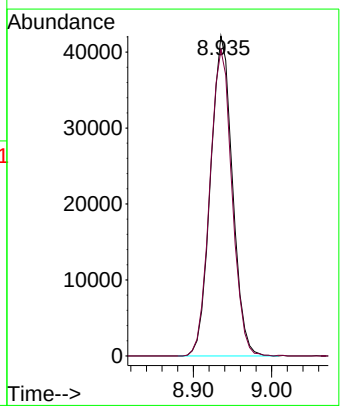
Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

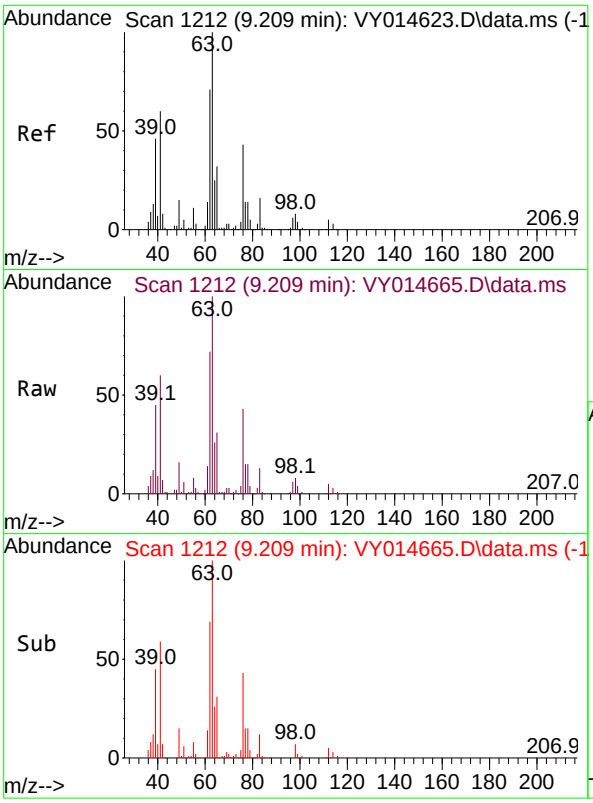


#44
Trichloroethene
Concen: 22.169 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:130 Resp: 81779

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	196.0

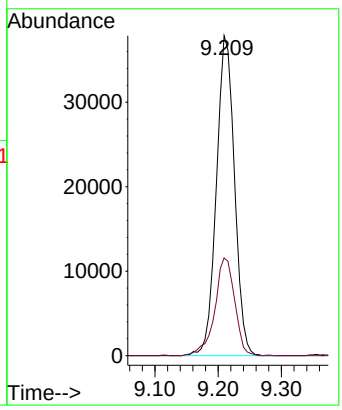




#45
1,2-Dichloropropane
Concen: 21.811 ug/l
RT: 9.209 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 63 Resp: 7508

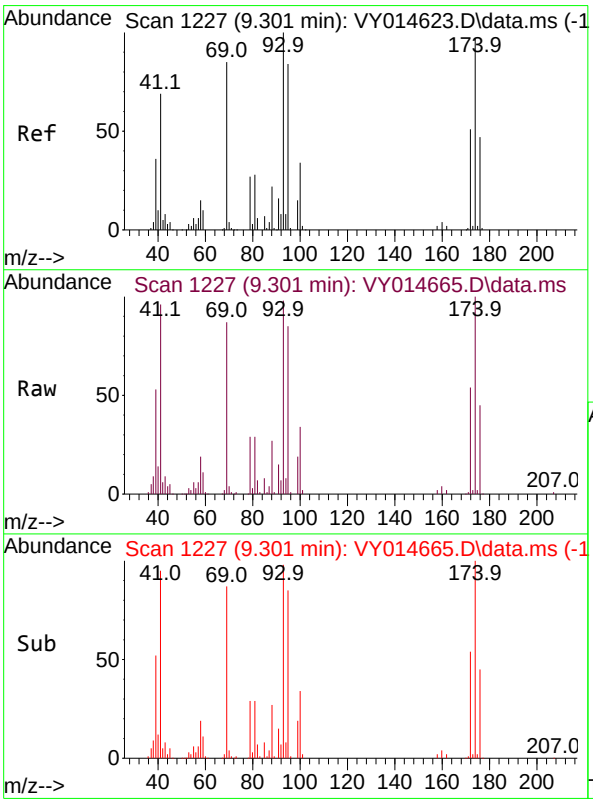
Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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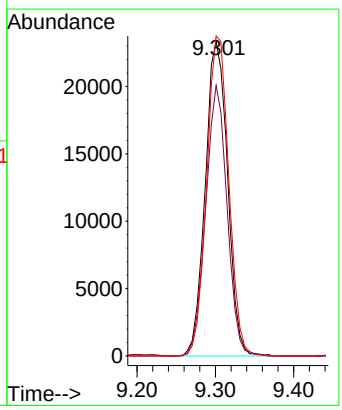
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

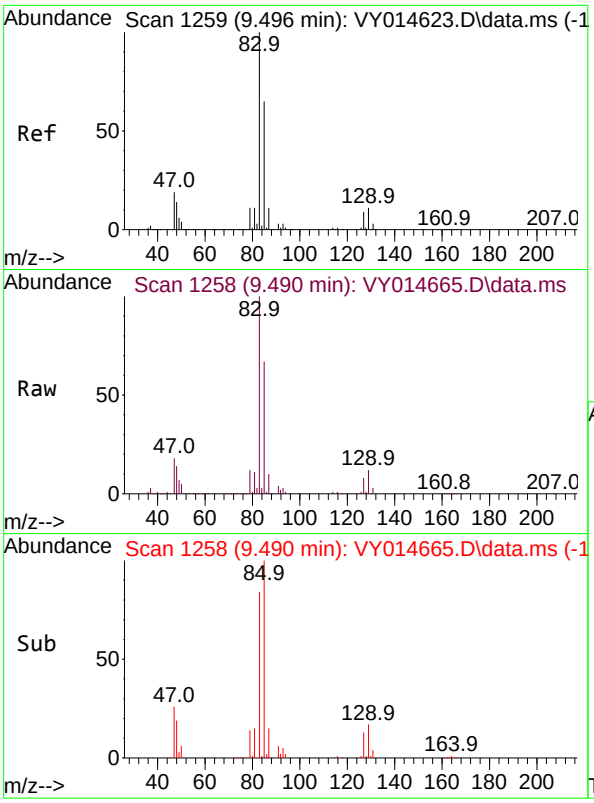


#46
Dibromomethane
Concen: 22.120 ug/l
RT: 9.301 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 93 Resp: 46200

Ion	Ratio	Lower	Upper
93	100		
95	82.4	66.6	100.0
174	100.6	84.8	127.2

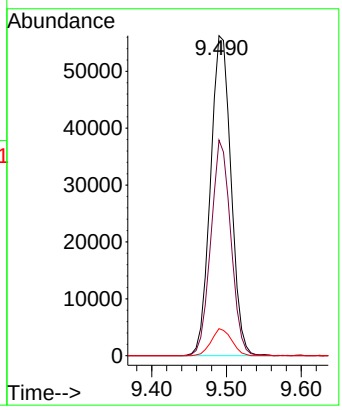




#47
Bromodichloromethane
Concen: 21.838 ug/l
RT: 9.490 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 83 Resp: 10750

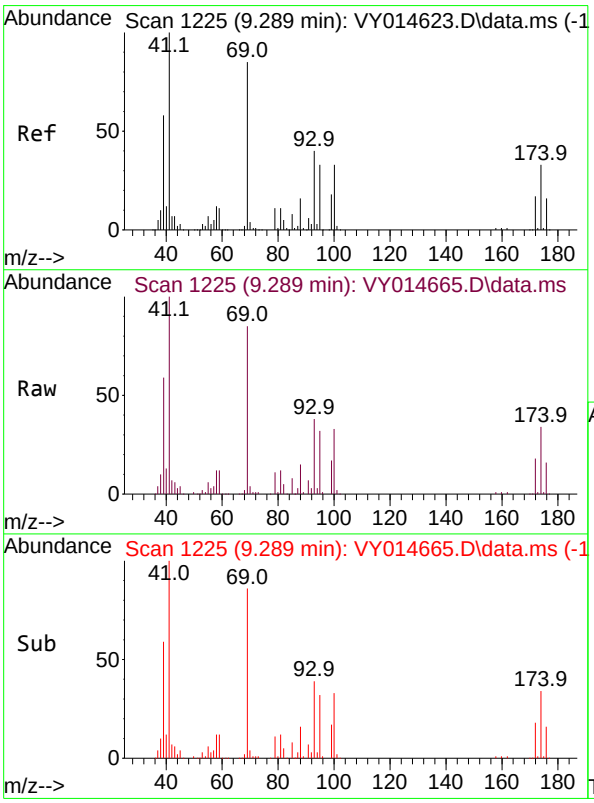
Ion	Ratio	Lower	Upper
83	100		
85	67.4	50.1	75.1
127	8.4	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

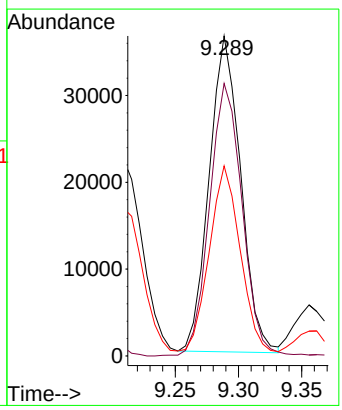
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

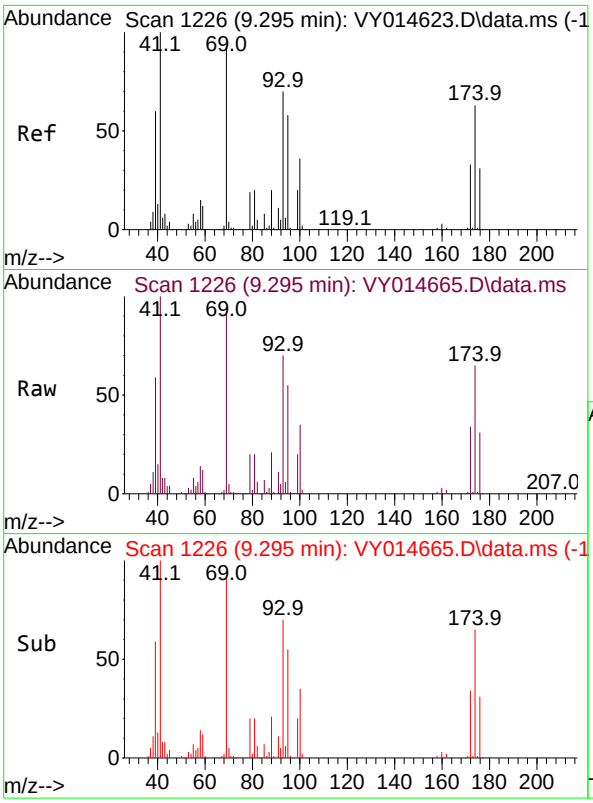


#48
Methyl methacrylate
Concen: 22.997 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 41 Resp: 62915

Ion	Ratio	Lower	Upper
41	100		
69	89.8	64.5	96.7
39	57.6	50.8	76.2





#49
1,4-Dioxane
Concen: 496.625 ug/l
RT: 9.295 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

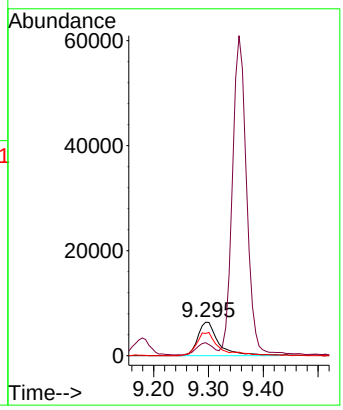
Tgt Ion: 88 Resp: 1691

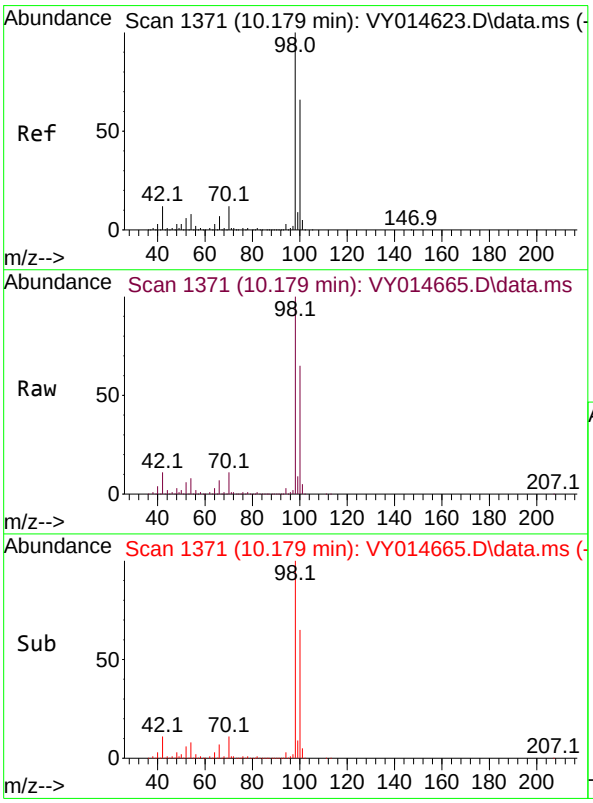
Ion	Ratio	Lower	Upper
88	100		
43	29.6	0.0	0.0#
58	75.0	30.9	46.3#

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

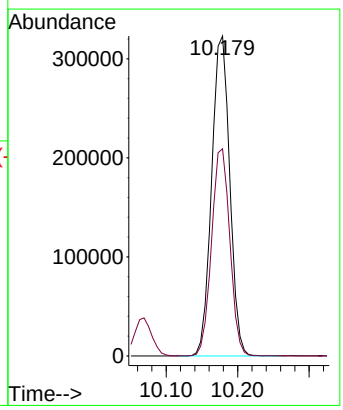


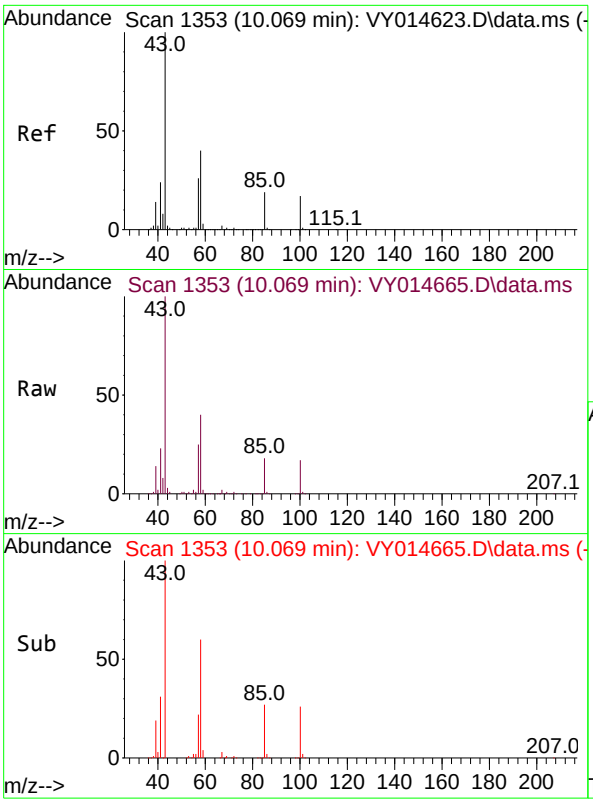


#50
Toluene-d8
Concen: 49.649 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 98 Resp: 567422

Ion	Ratio	Lower	Upper
98	100		
100	65.5	50.1	75.1

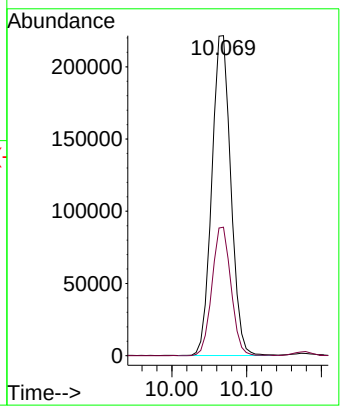




#51
4-Methyl-2-Pentanone
Concen: 122.616 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 43 Resp: 39142

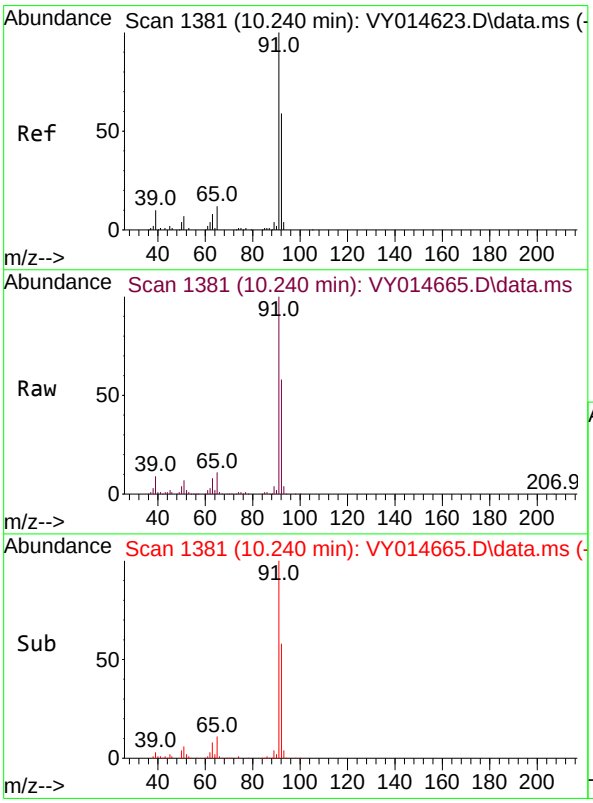
Ion	Ratio	Lower	Upper
43	100		
58	40.2	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

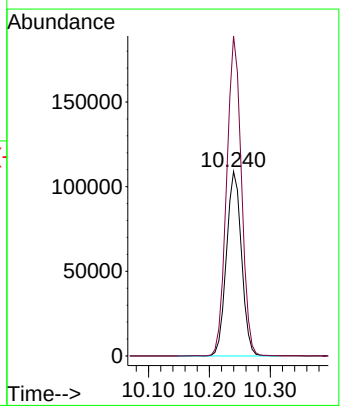
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

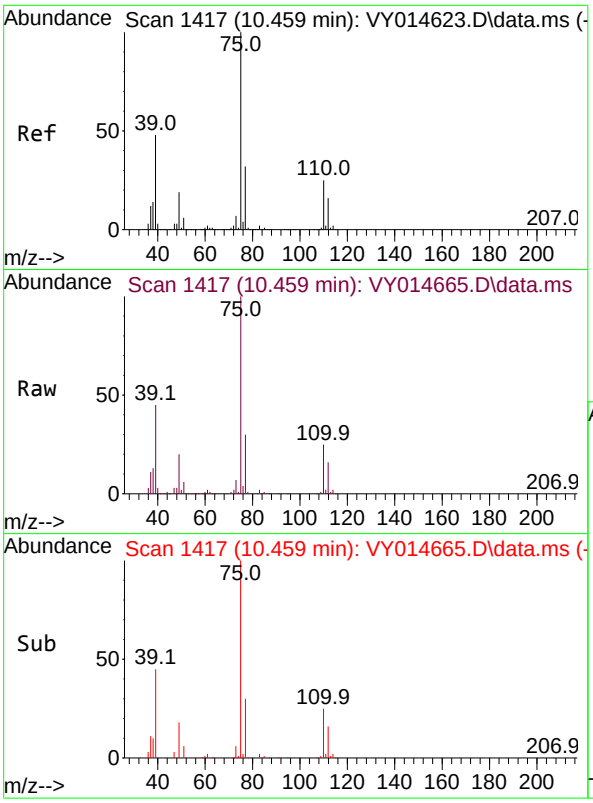


#52
Toluene
Concen: 22.128 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 92 Resp: 186689

Ion	Ratio	Lower	Upper
92	100		
91	170.3	143.8	215.6

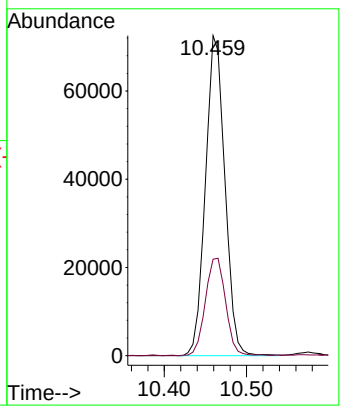




#53
t-1,3-Dichloropropene
Concen: 22.115 ug/l
RT: 10.459 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 75 Resp: 11907

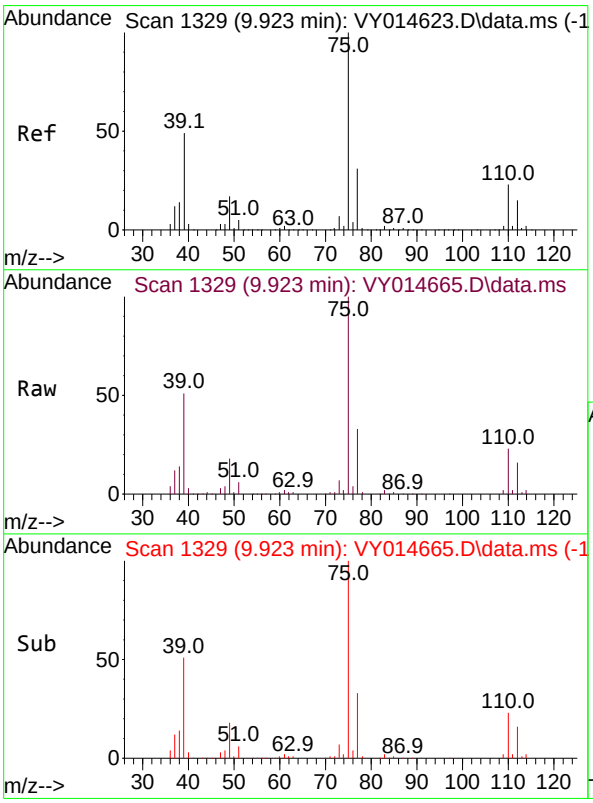
Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

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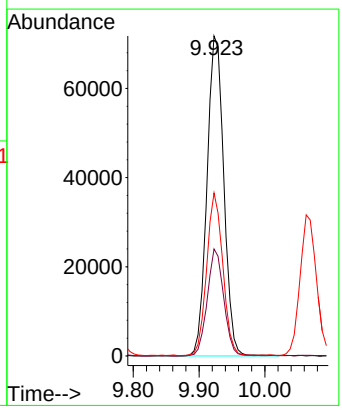
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

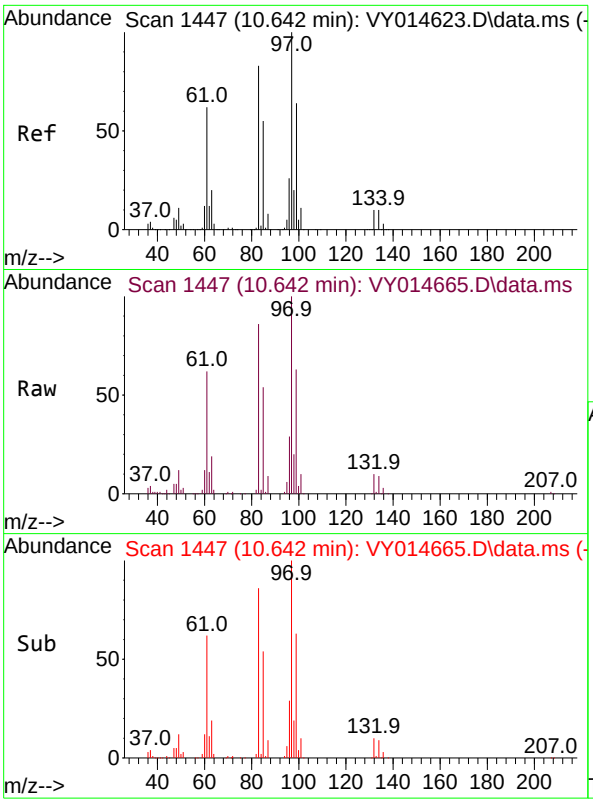


#54
cis-1,3-Dichloropropene
Concen: 21.835 ug/l
RT: 9.923 min Scan# 1329
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 75 Resp: 127855

Ion	Ratio	Lower	Upper
75	100		
77	33.4	24.2	36.4
39	50.8	42.2	63.4

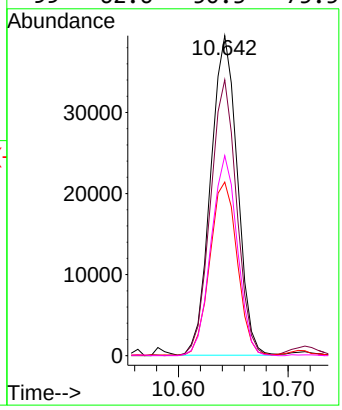




#55
1,1,2-Trichloroethane
Concen: 22.927 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 97 Resp: 6670

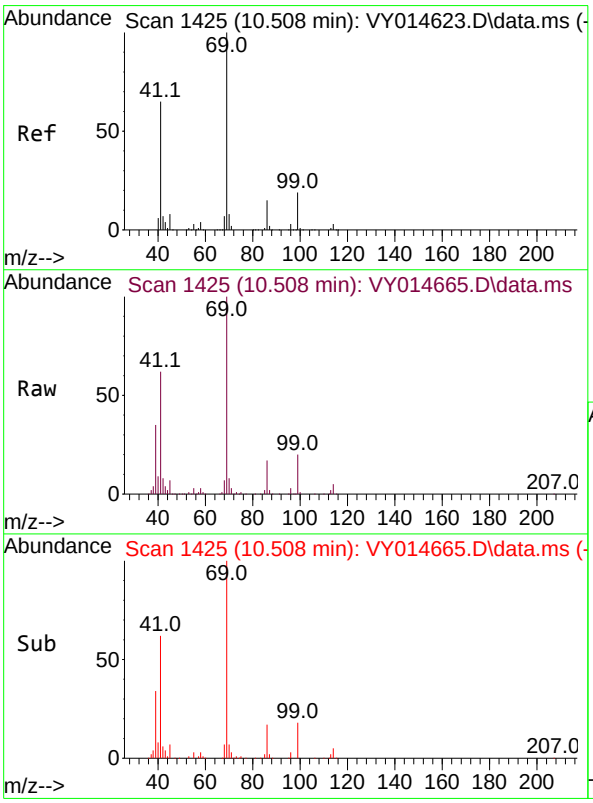
Ion	Ratio	Lower	Upper
97	100		
83	86.2	72.0	108.0
85	54.2	45.4	68.0
99	62.6	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

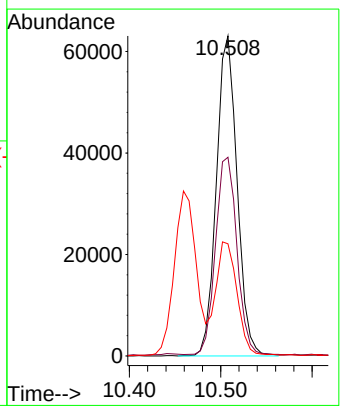
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

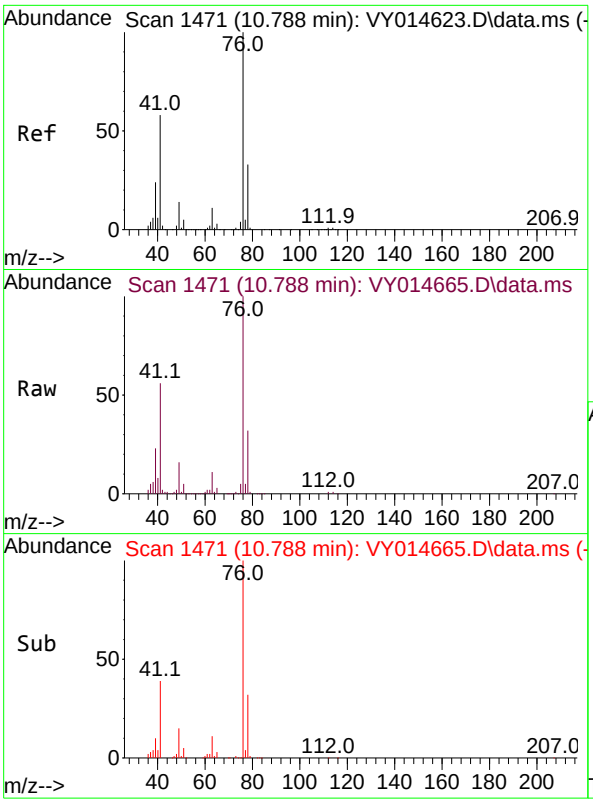


#56
Ethyl methacrylate
Concen: 22.408 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 69 Resp: 99538

Ion	Ratio	Lower	Upper
69	100		
41	63.8	57.6	86.4
39	36.3	34.1	51.1





#57
1,3-Dichloropropane
Concen: 21.995 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

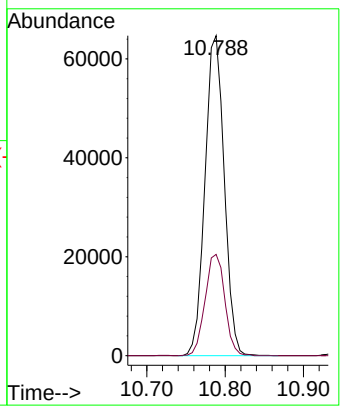
Tgt Ion: 76 Resp: 11037

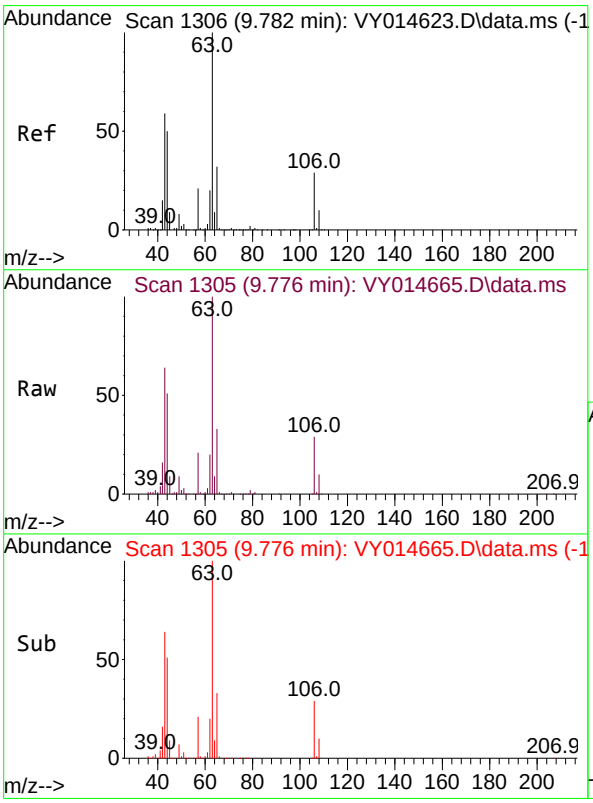
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

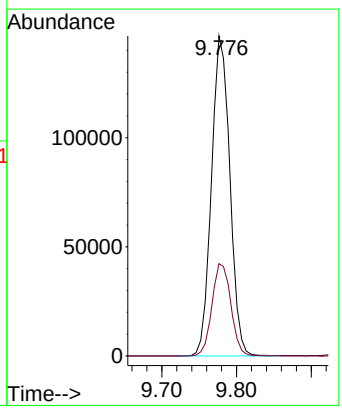


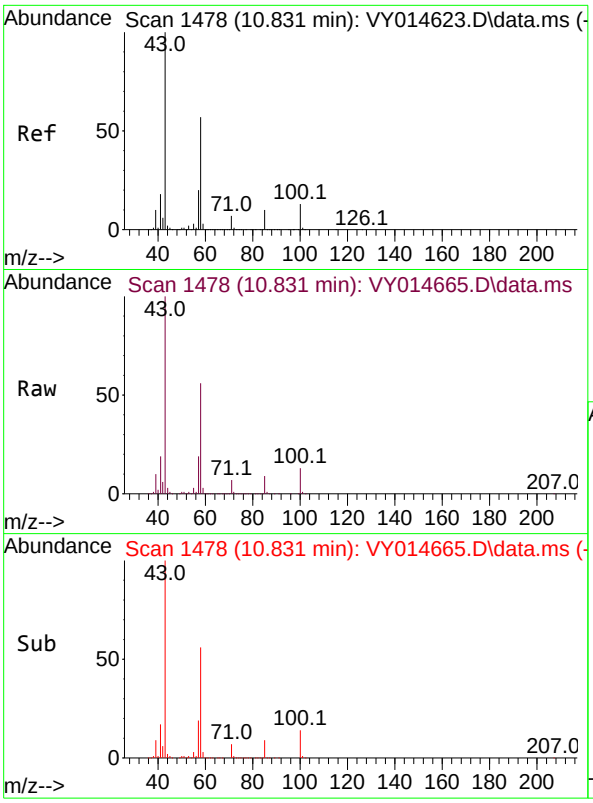


#58
2-Chloroethyl Vinyl ether
Concen: 121.078 ug/l
RT: 9.776 min Scan# 1305
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 63 Resp: 250598

Ion	Ratio	Lower	Upper
63	100		
106	29.6	21.2	31.8





#59
2-Hexanone
Concen: 124.444 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

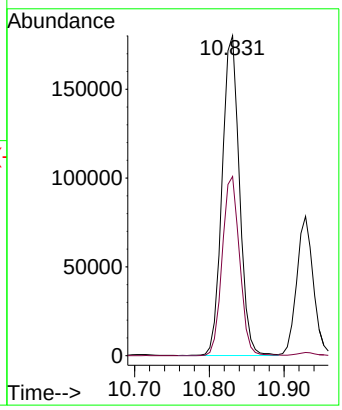
Tgt Ion: 43 Resp: 28970

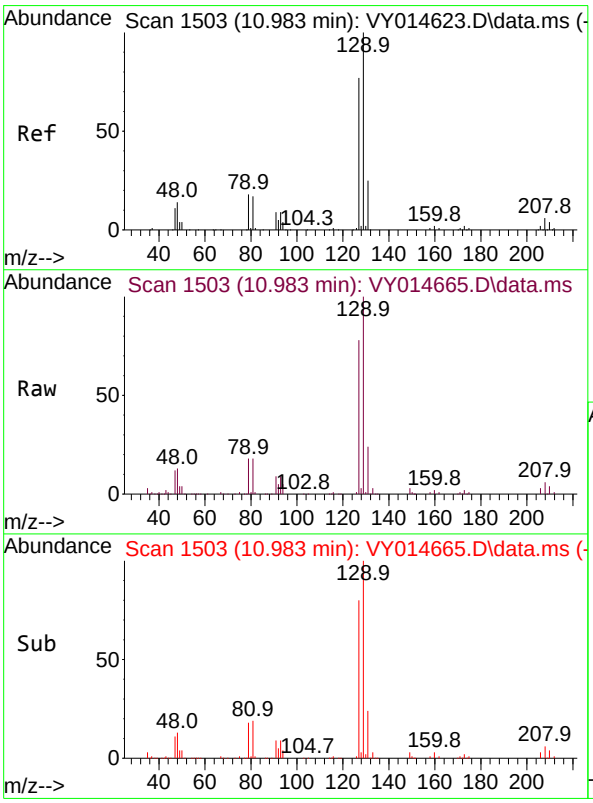
Ion	Ratio	Lower	Upper
43	100		
58	56.4	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

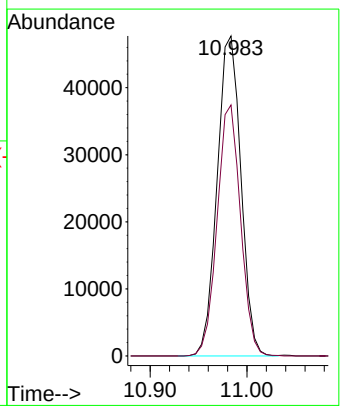


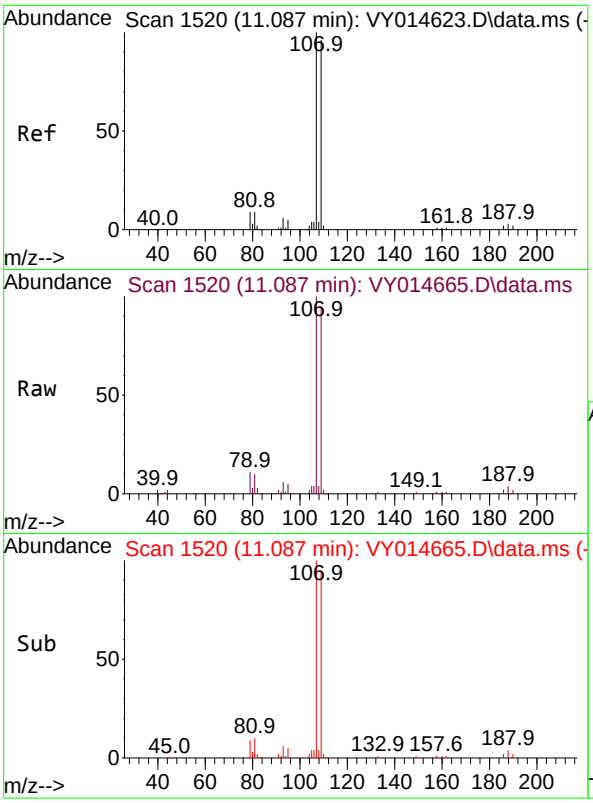


#60
Dibromochloromethane
Concen: 22.839 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:129 Resp: 81466

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5





#61
1,2-Dibromoethane
Concen: 23.359 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

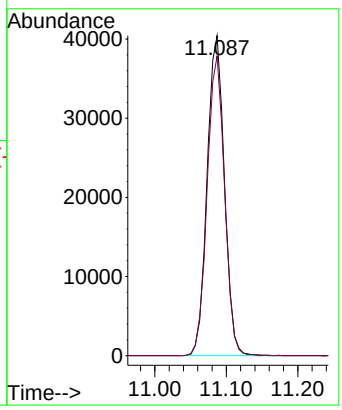
Tgt Ion:107 Resp: 6779

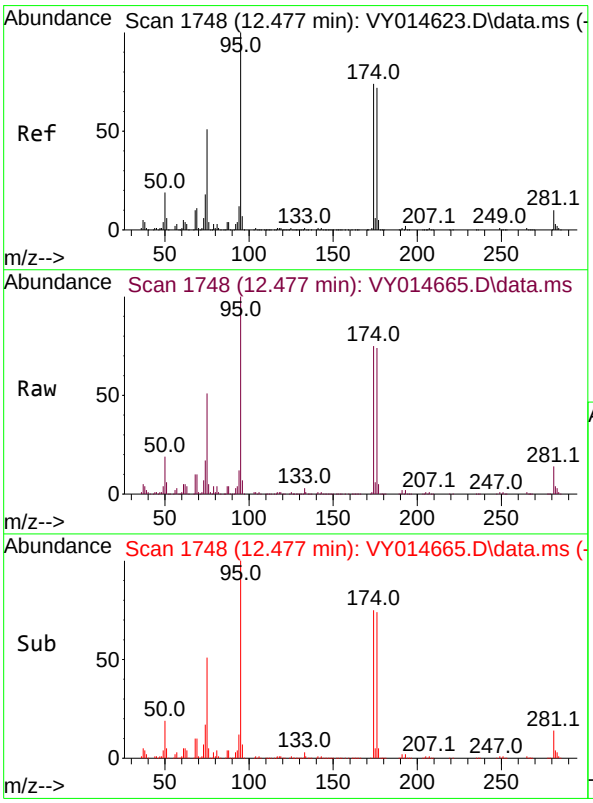
Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

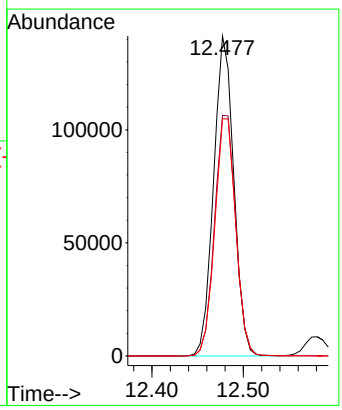


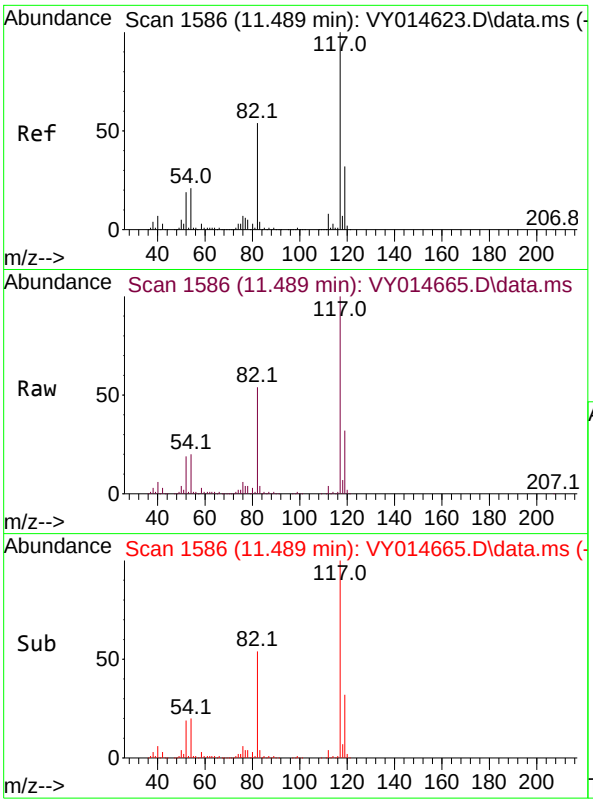


#62
4-Bromofluorobenzene
Concen: 49.567 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 95 Resp: 217212

Ion	Ratio	Lower	Upper
95	100		
174	78.7	0.0	178.2
176	77.0	0.0	173.8

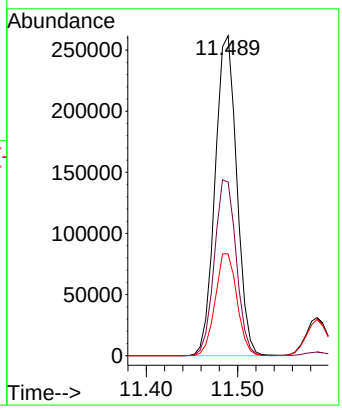




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:117 Resp: 43160

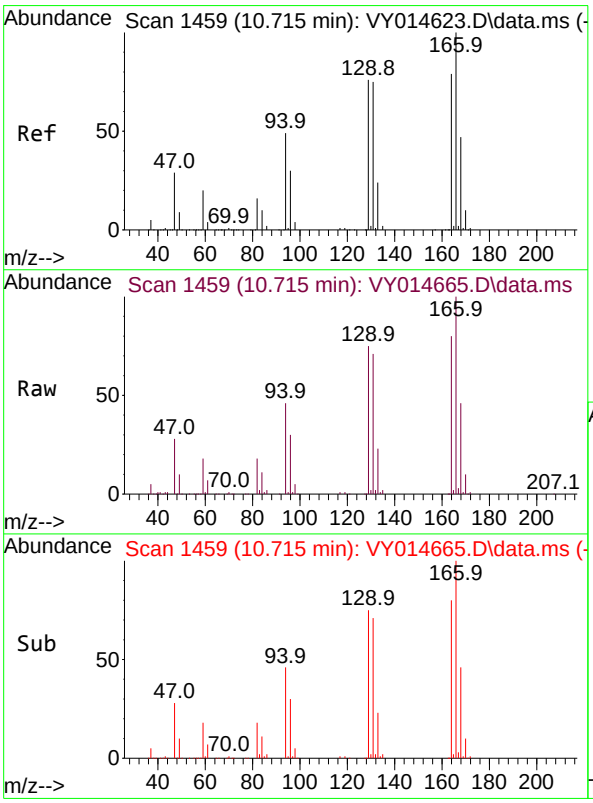
Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.4	65.0
119	31.8	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

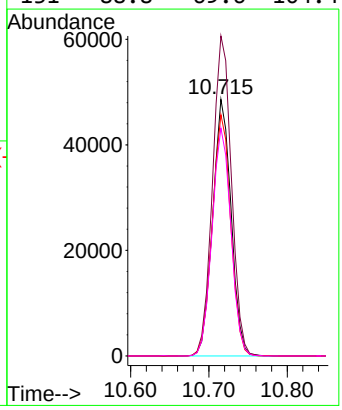
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

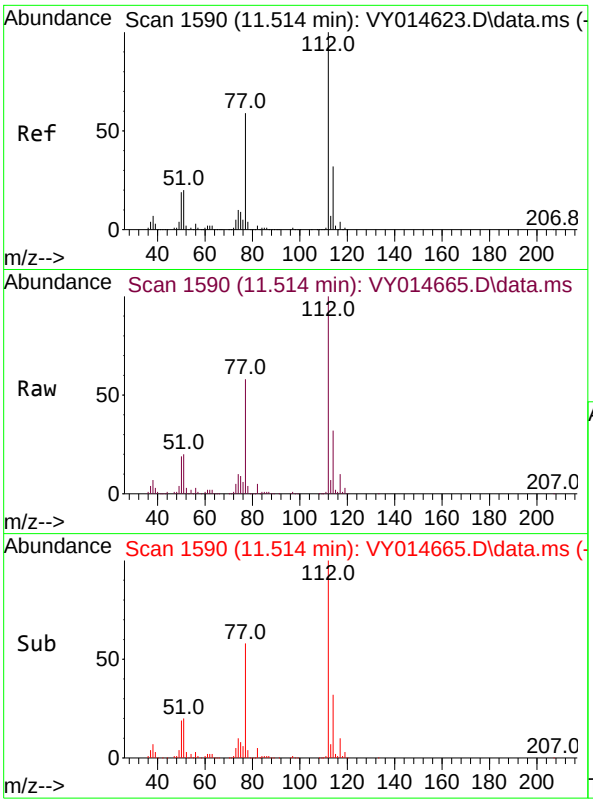


#64
Tetrachloroethene
Concen: 22.906 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:164 Resp: 79513

Ion	Ratio	Lower	Upper
164	100		
166	124.7	103.0	154.6
129	94.0	77.2	115.8
131	88.8	69.6	104.4

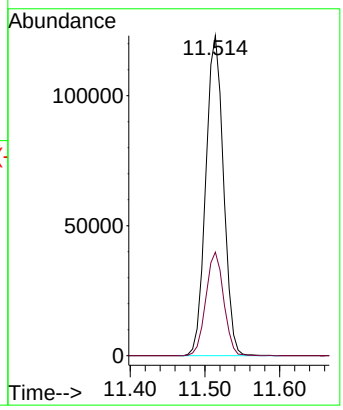




#65
Chlorobenzene
Concen: 21.982 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:112 Resp: 20217

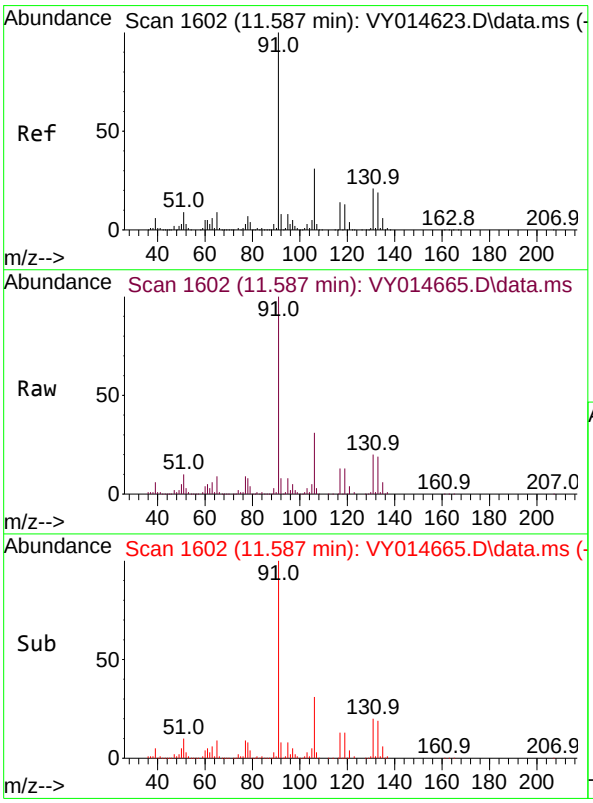
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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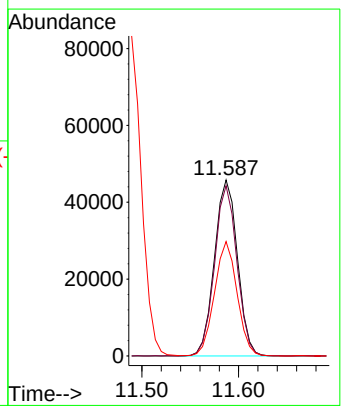
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

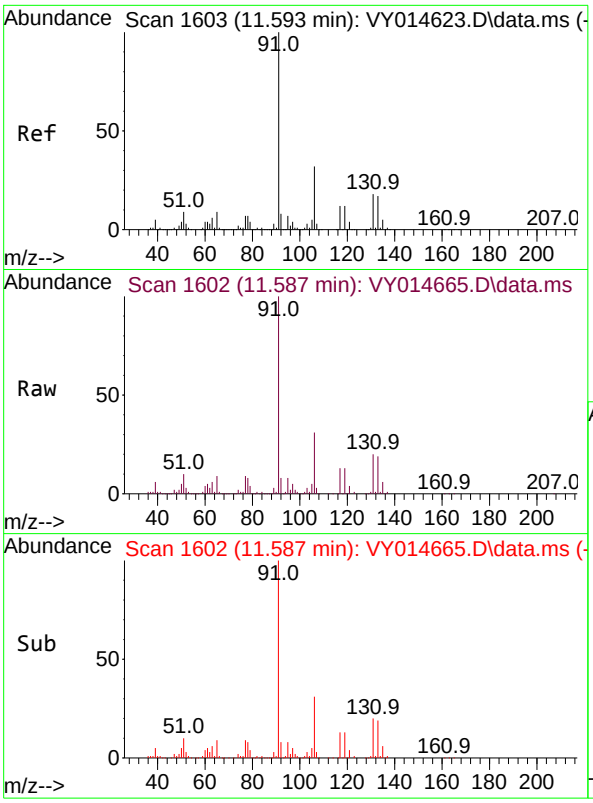


#66
1,1,1,2-Tetrachloroethane
Concen: 21.809 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:131 Resp: 75630

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.5	142.6
119	64.0	31.6	94.7





#67
Ethyl Benzene
Concen: 22.090 ug/l
RT: 11.587 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

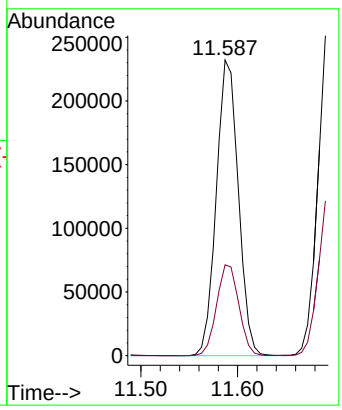
Tgt Ion: 91 Resp: 36682

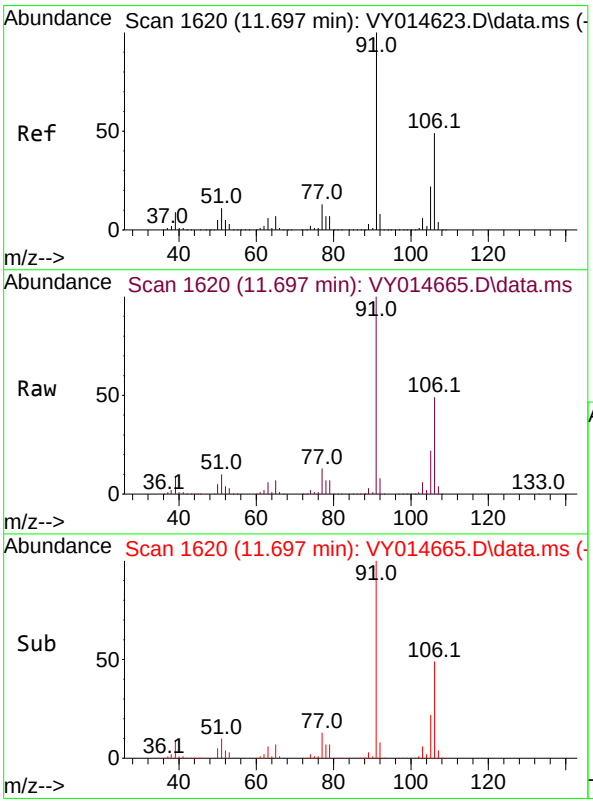
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.6	36.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

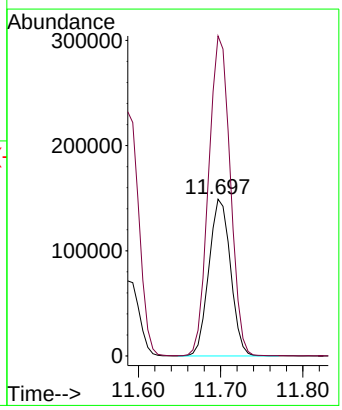


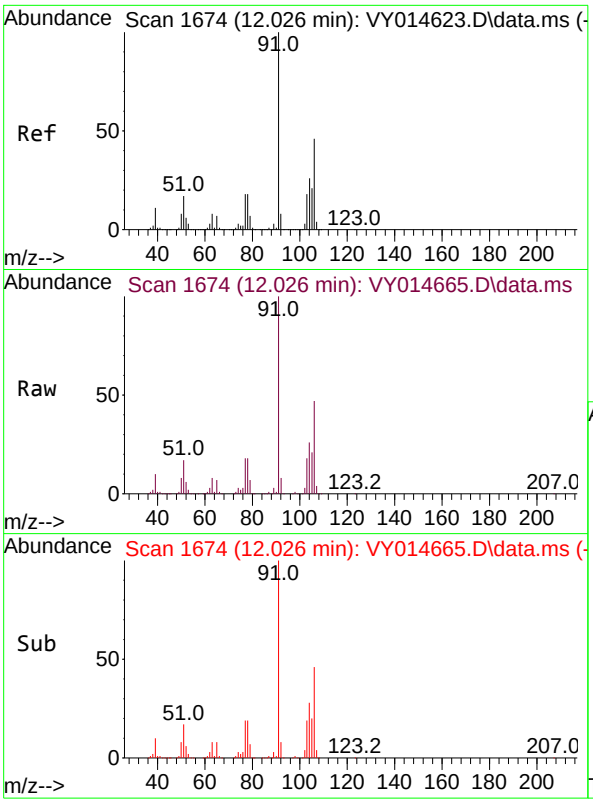


#68
m/p-Xylenes
Concen: 43.000 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:106 Resp: 272575

Ion	Ratio	Lower	Upper
106	100		
91	204.7	166.1	249.1





#69
o-Xylene
Concen: 22.019 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

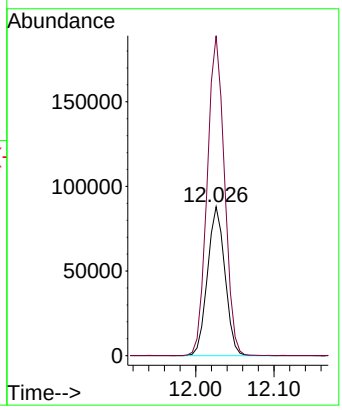
Tgt Ion:106 Resp: 13595

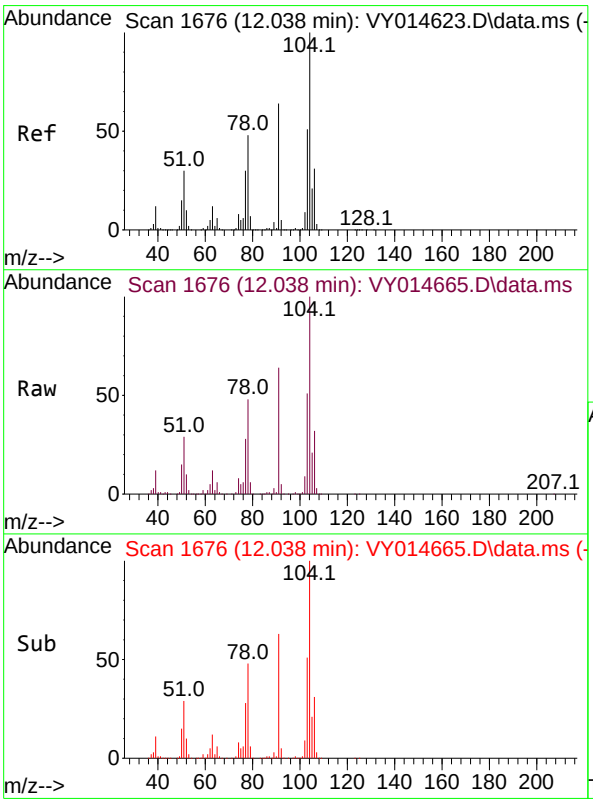
Ion	Ratio	Lower	Upper
106	100		
91	213.1	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

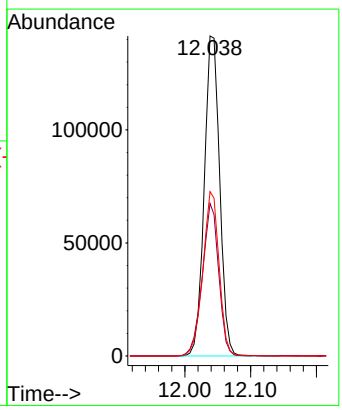


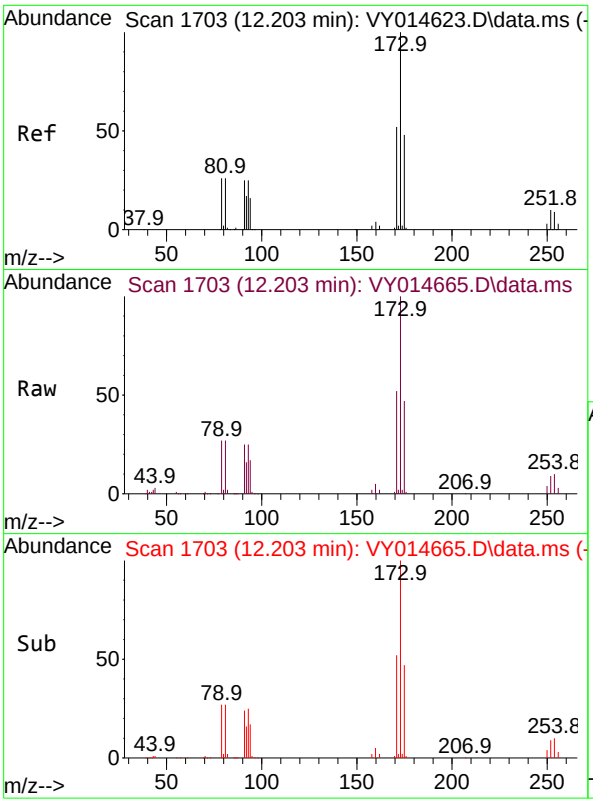


#70
Styrene
Concen: 22.212 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:104 Resp: 231140

Ion	Ratio	Lower	Upper
104	100		
78	50.3	41.5	62.3
103	54.0	44.6	67.0

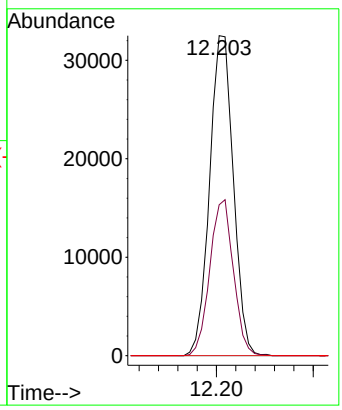




#71
Bromoform
Concen: 23.570 ug/l
RT: 12.203 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

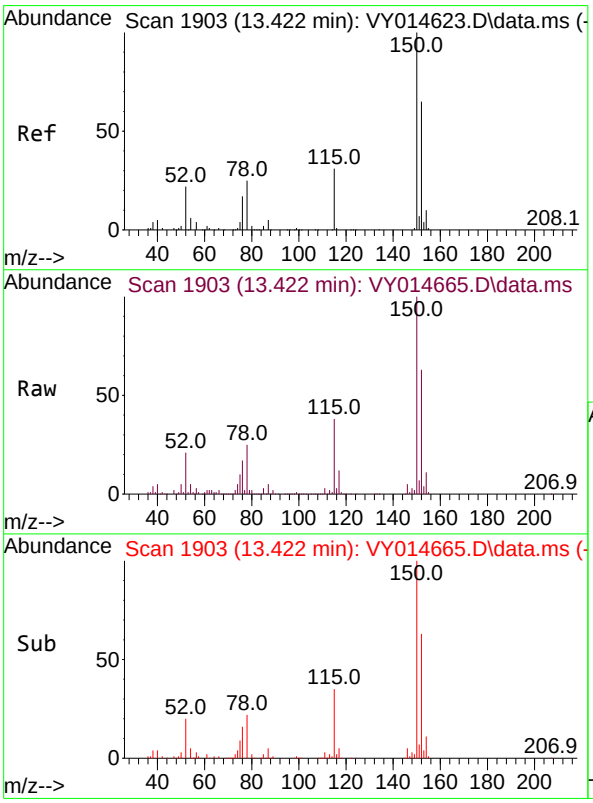
Tgt Ion:173 Resp: 5540

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

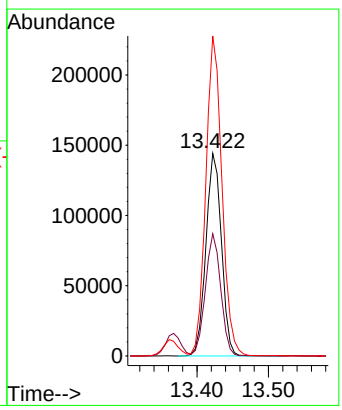
Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

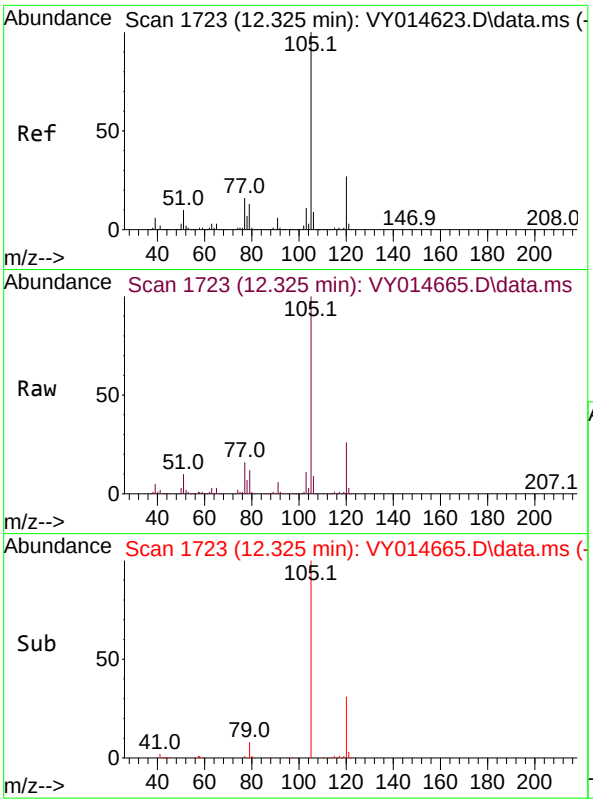


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:152 Resp: 217159

Ion	Ratio	Lower	Upper
152	100		
115	59.5	28.8	86.5
150	163.9	0.0	348.8





#73
Isopropylbenzene
Concen: 20.963 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

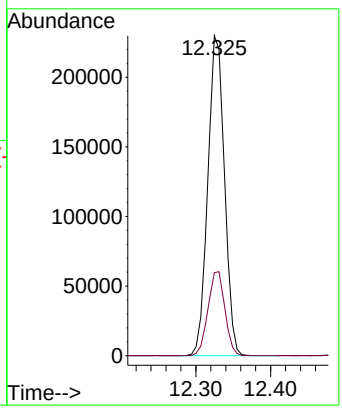
Tgt Ion:105 Resp: 35644

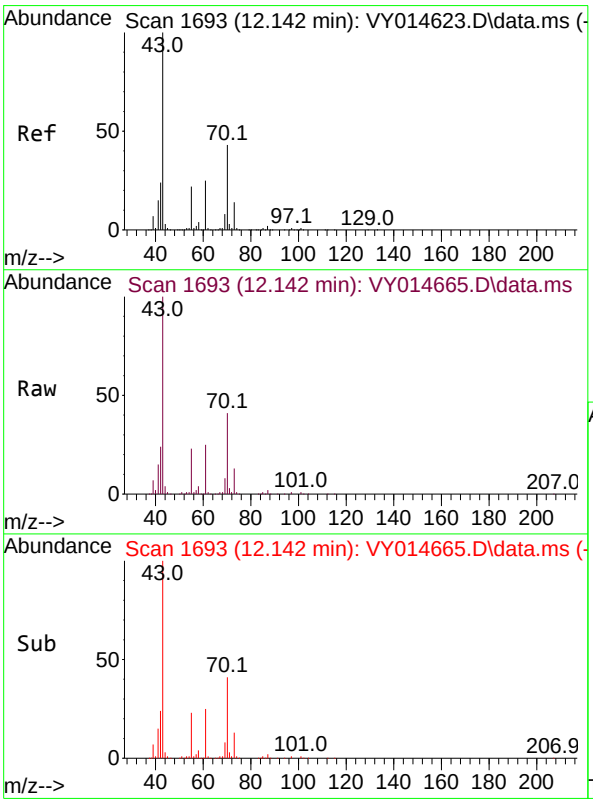
Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.3	39.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

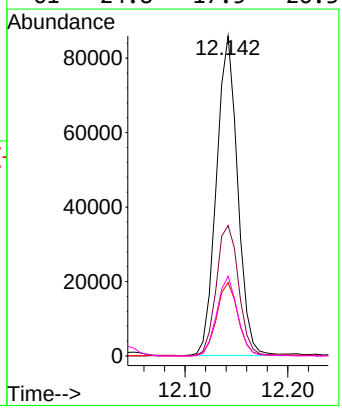


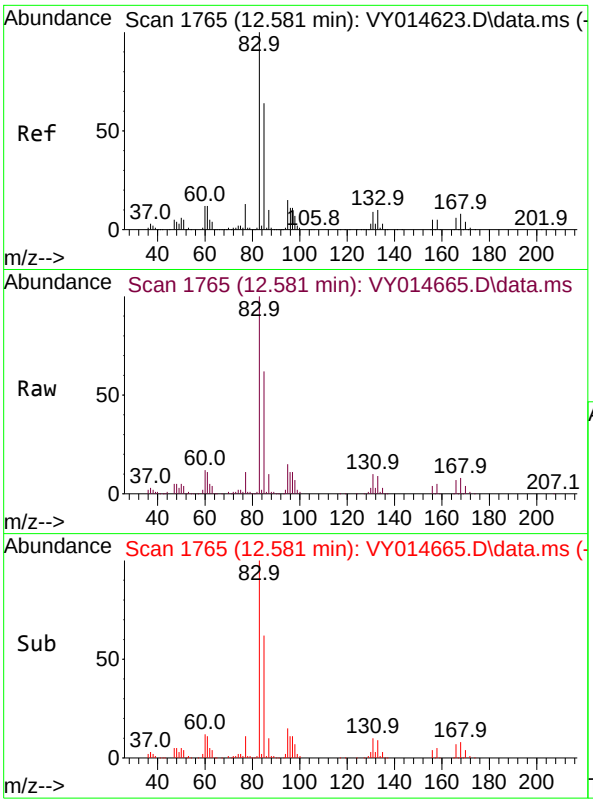


#74
N-amyl acetate
Concen: 21.533 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 43 Resp: 122629

Ion	Ratio	Lower	Upper
43	100		
70	43.4	29.7	44.5
55	23.0	18.3	27.5
61	24.8	17.5	26.3

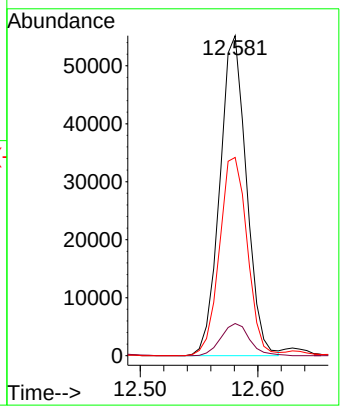




#75
1,1,2,2-Tetrachloroethane
Concen: 22.450 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 83 Resp: 8705

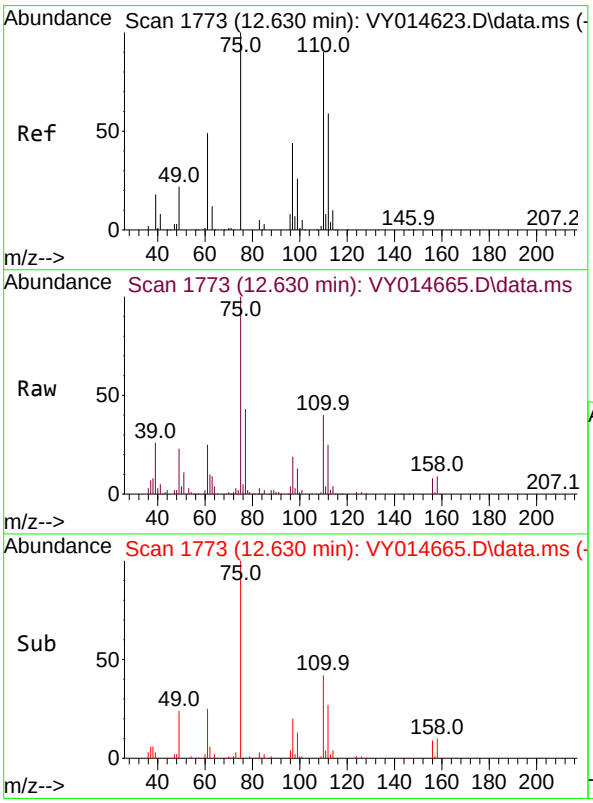
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.4	16.2
85	64.6	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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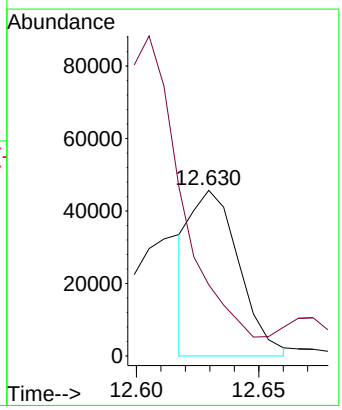
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

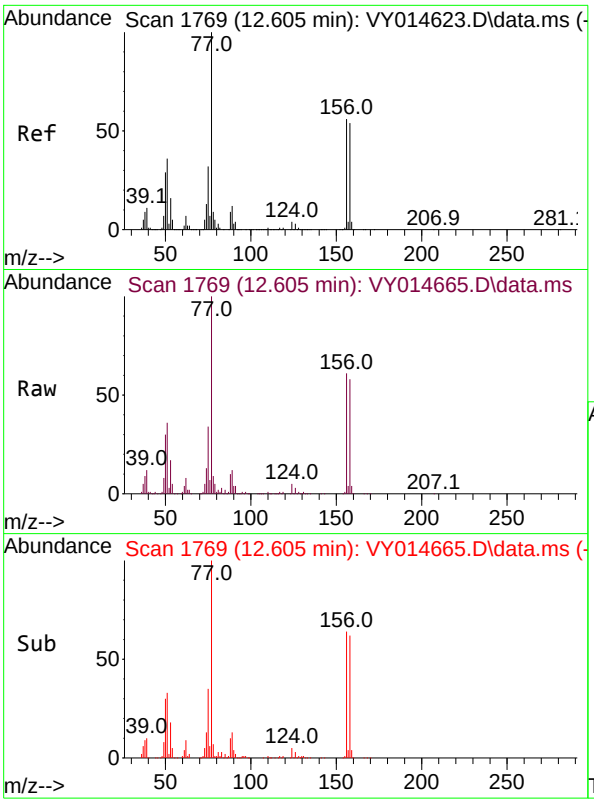


#76
1,2,3-Trichloropropane
Concen: 22.868 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 75 Resp: 62720

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

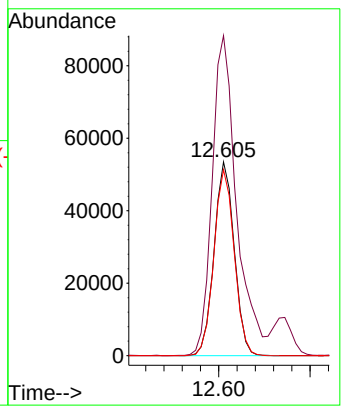




#77
Bromobenzene
Concen: 21.065 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:156 Resp: 8176

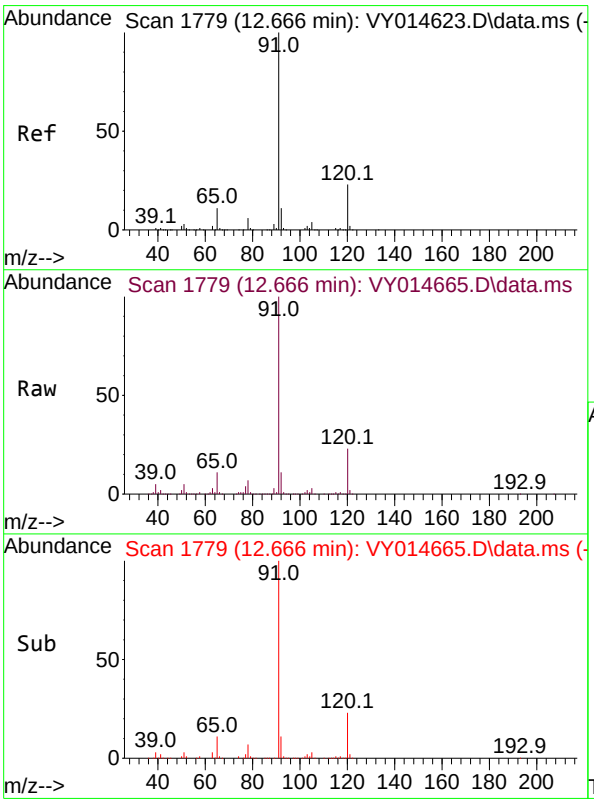
Ion	Ratio	Lower	Upper
156	100		
77	198.5	92.8	278.6
158	97.0	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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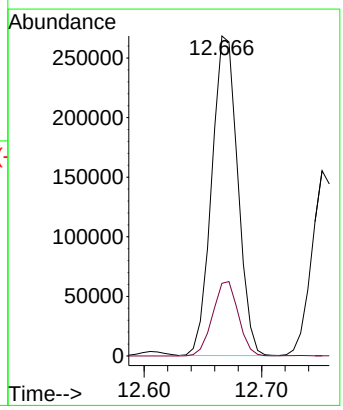
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

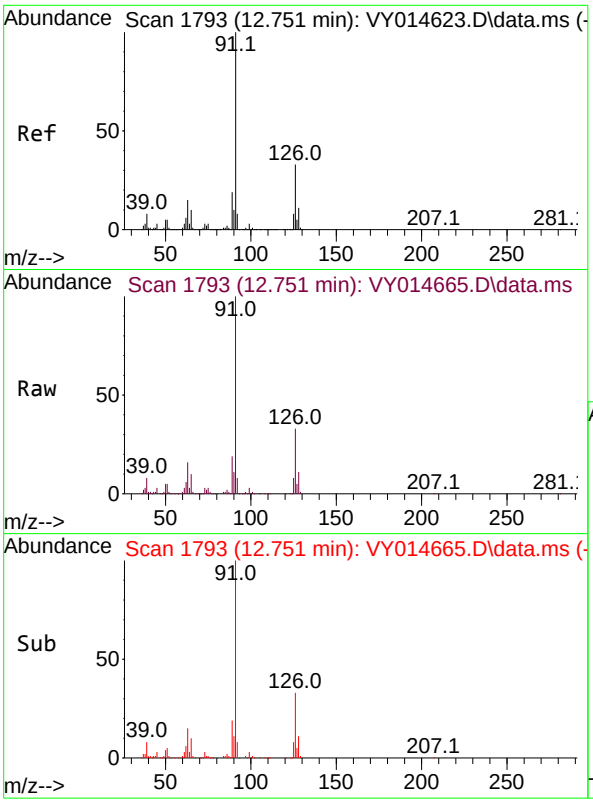


#78
n-propylbenzene
Concen: 20.118 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 91 Resp: 412215

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.4

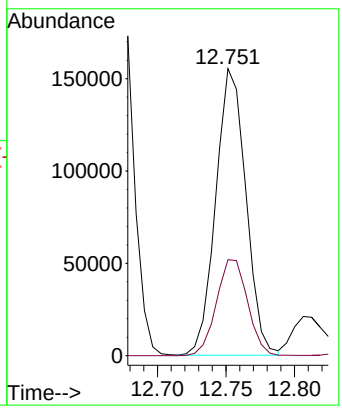




#79
2-Chlorotoluene
Concen: 20.128 ug/l
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 91 Resp: 23754

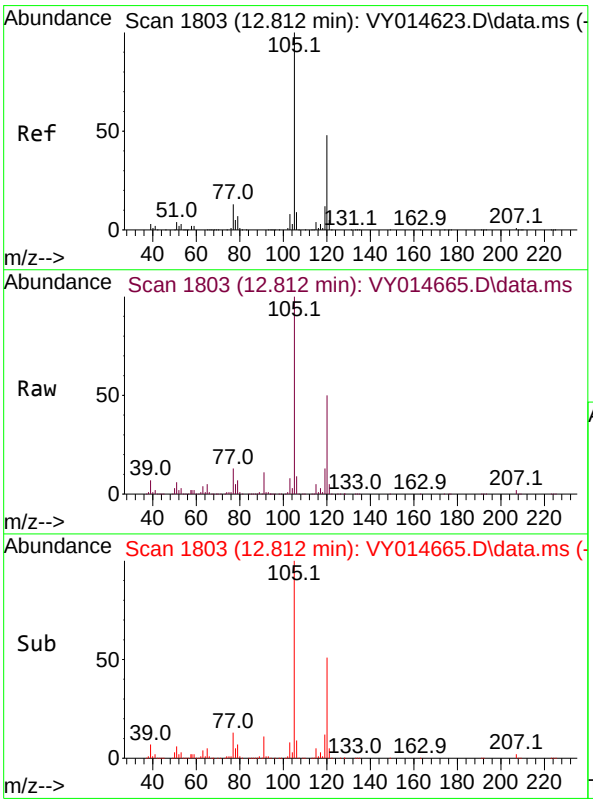
Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	51.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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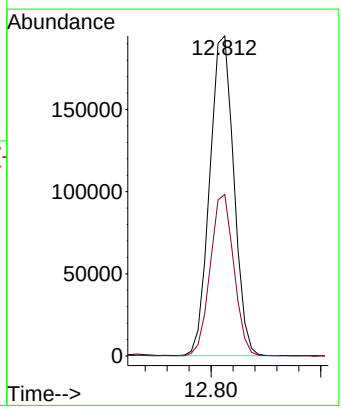
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

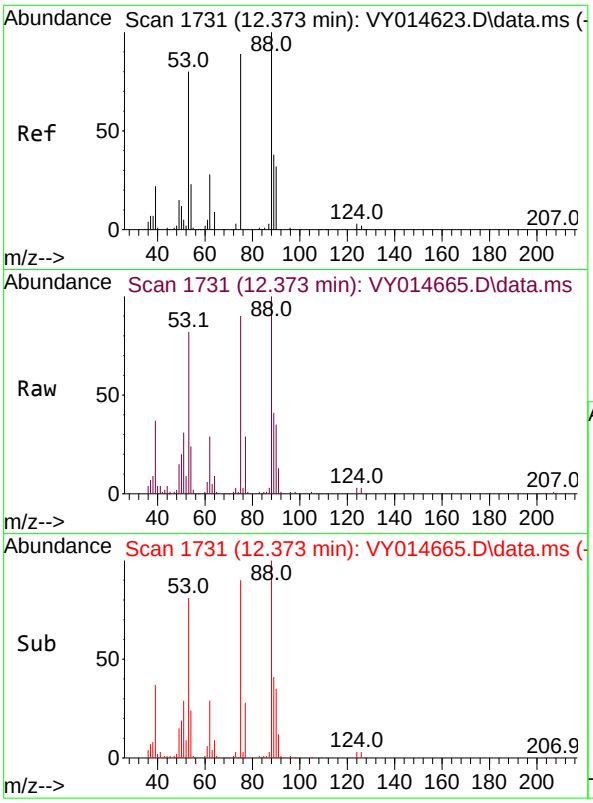


#80
1,3,5-Trimethylbenzene
Concen: 20.942 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:105 Resp: 297391

Ion	Ratio	Lower	Upper
105	100		
120	49.4	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 21.615 ug/l
RT: 12.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

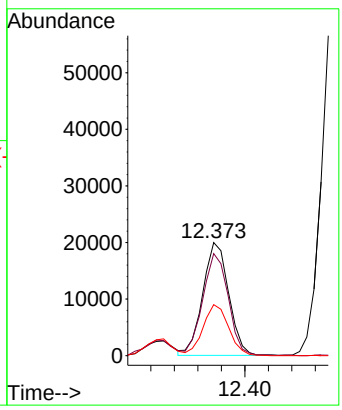
Tgt Ion: 75 Resp: 3061

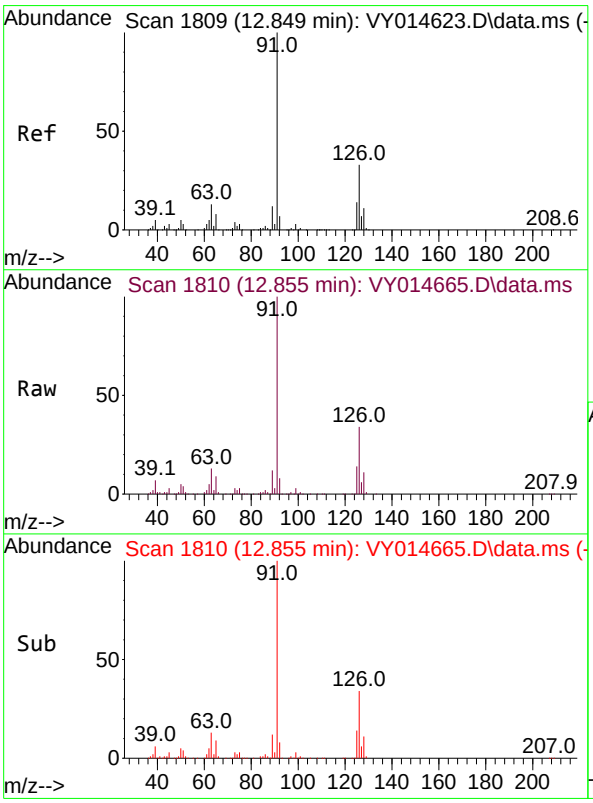
Ion	Ratio	Lower	Upper
75	100		
53	89.1	77.8	116.8
89	44.5	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

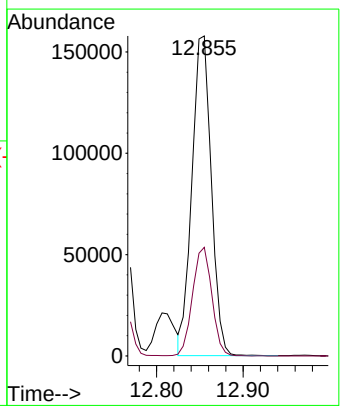


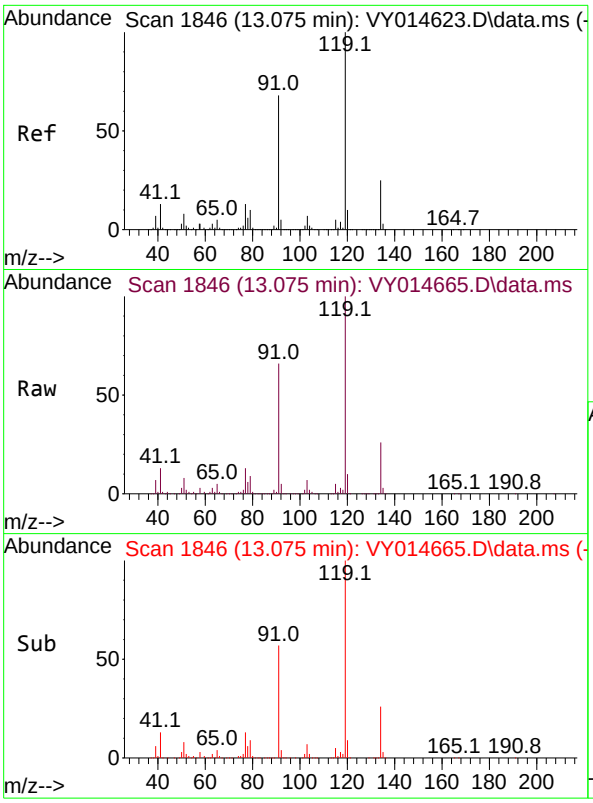


#82
4-Chlorotoluene
Concen: 20.137 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 91 Resp: 244755

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.2	51.6

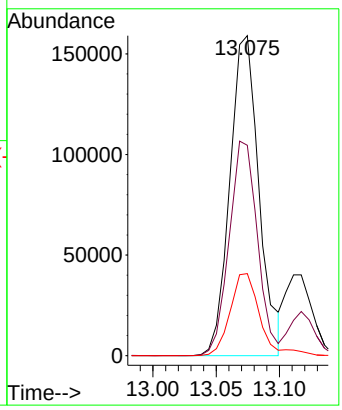




#83
tert-Butylbenzene
Concen: 20.267 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:119 Resp: 25529

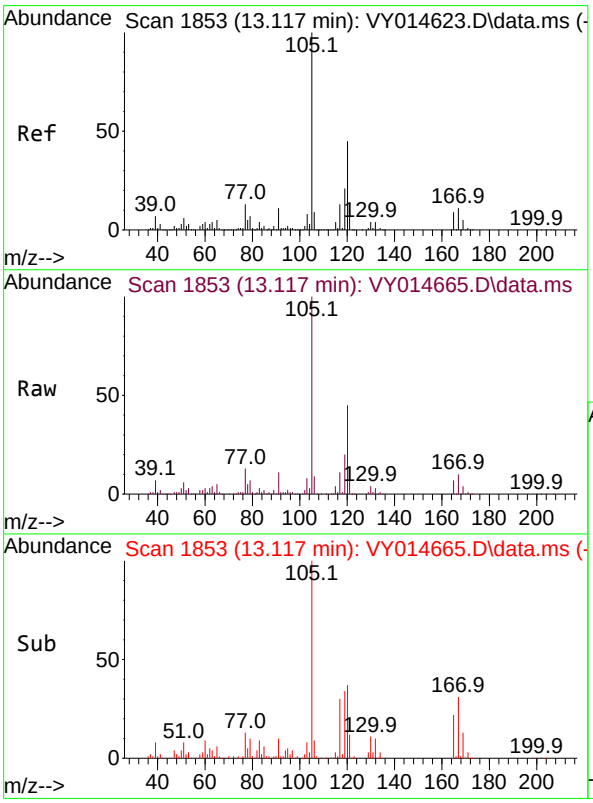
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.9	98.6
134	26.3	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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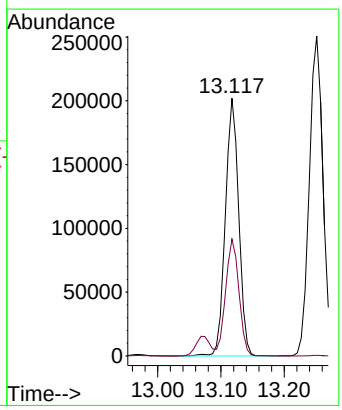
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

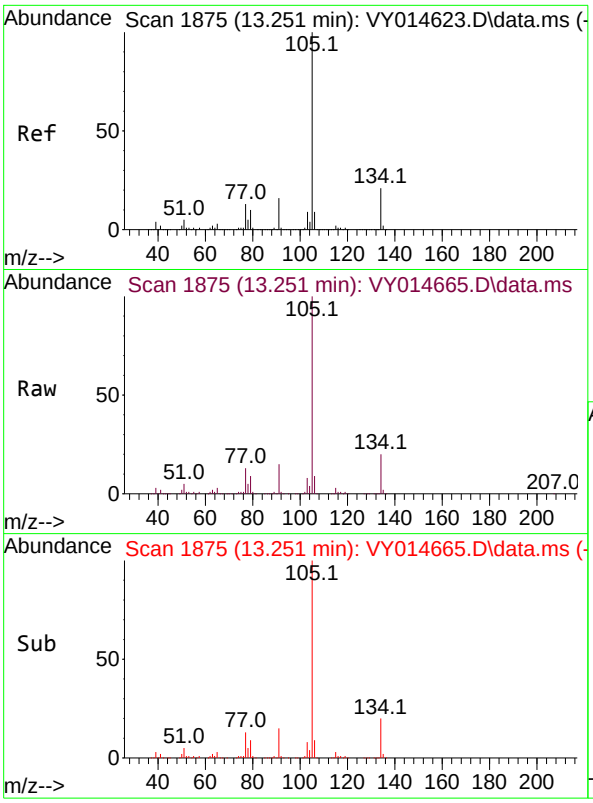


#84
1,2,4-Trimethylbenzene
Concen: 21.277 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:105 Resp: 296518

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.2	66.6

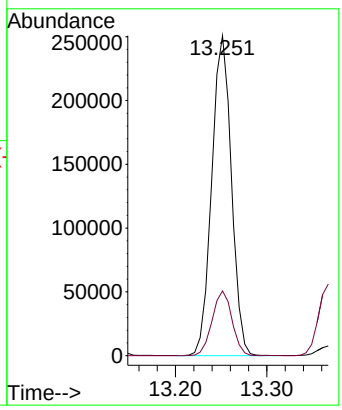




#85
sec-Butylbenzene
Concen: 20.217 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:105 Resp: 37357

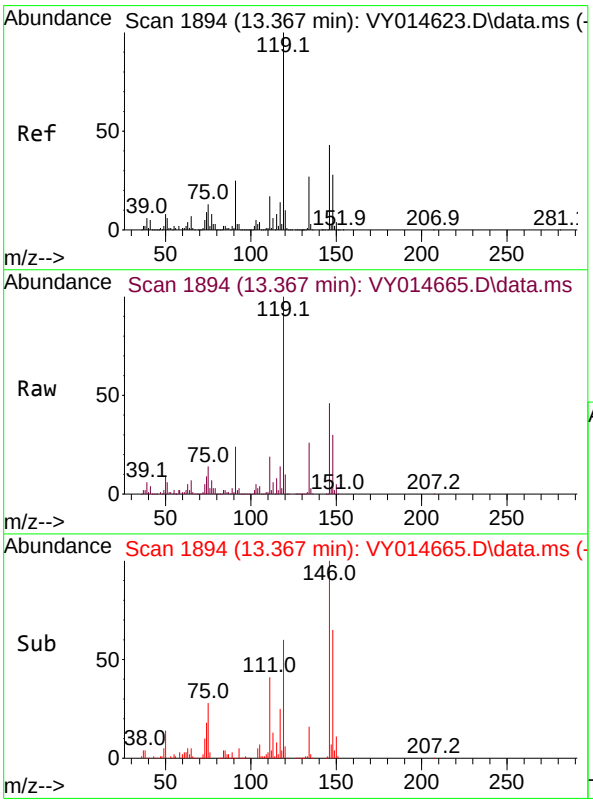
Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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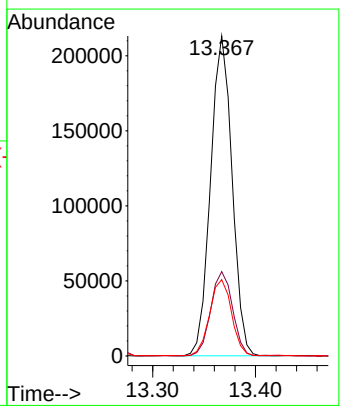
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

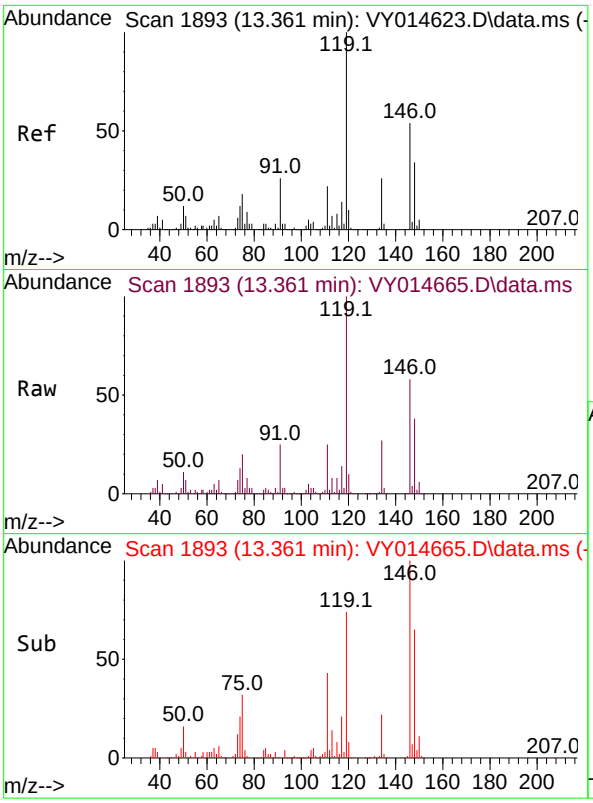


#86
p-Isopropyltoluene
Concen: 20.485 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:119 Resp: 309059

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.3	39.8
91	24.2	12.4	37.4

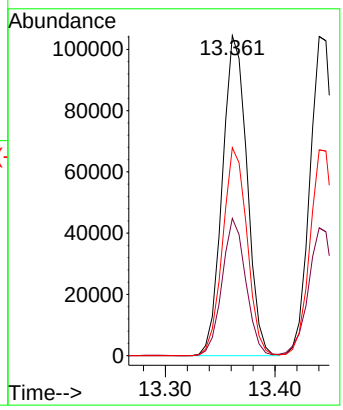




#87
1,3-Dichlorobenzene
Concen: 21.592 ug/l
RT: 13.361 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:146 Resp: 16310

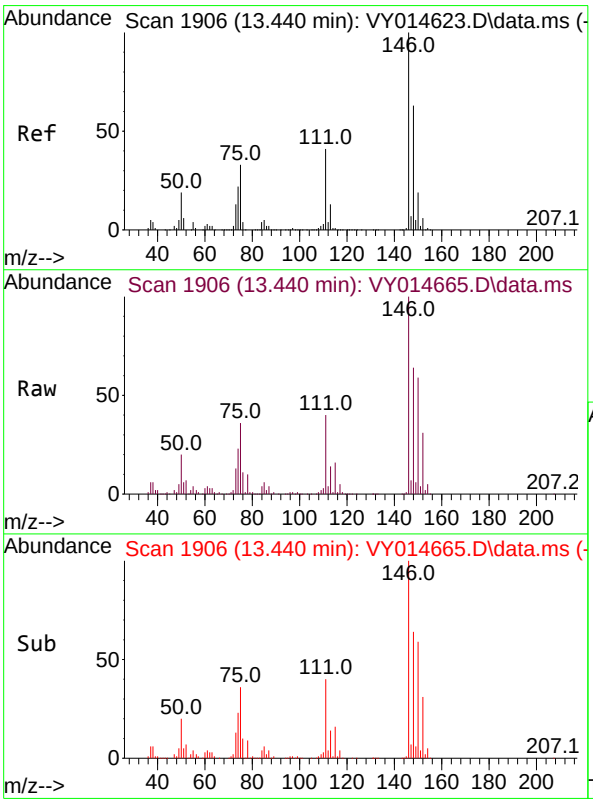
Ion	Ratio	Lower	Upper
146	100		
111	41.2	19.4	58.2
148	64.4	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
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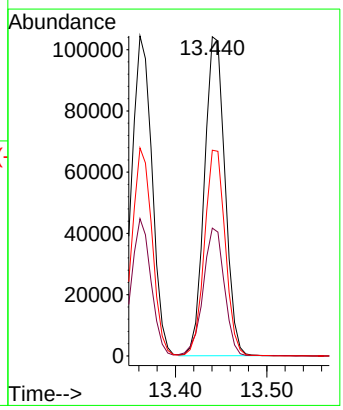
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

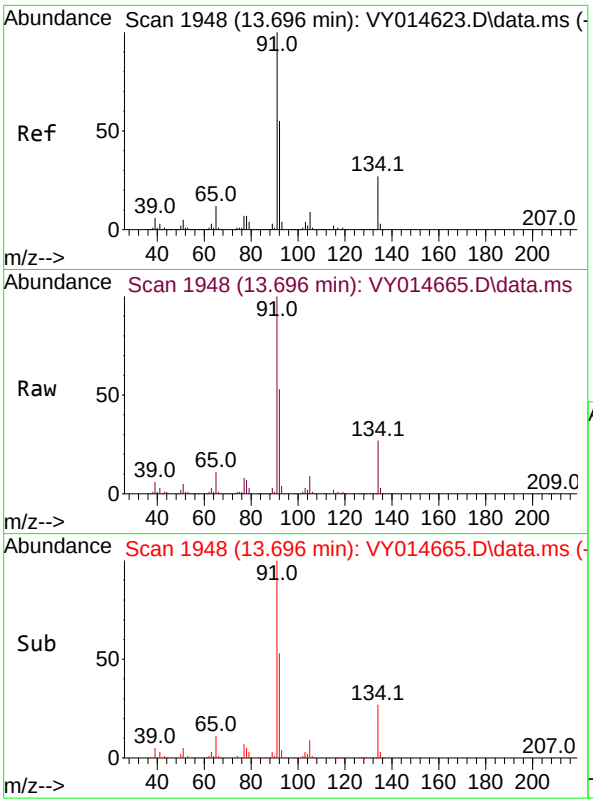


#88
1,4-Dichlorobenzene
Concen: 21.482 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:146 Resp: 162613

Ion	Ratio	Lower	Upper
146	100		
111	41.1	18.9	56.7
148	65.1	32.1	96.5

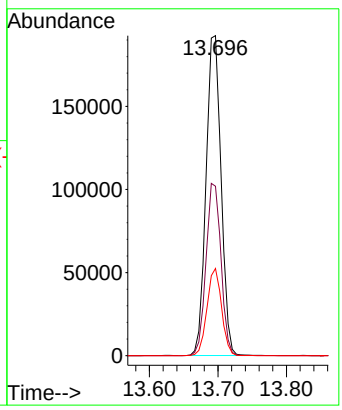




#89
n-Butylbenzene
Concen: 20.037 ug/l
RT: 13.696 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 91 Resp: 29411

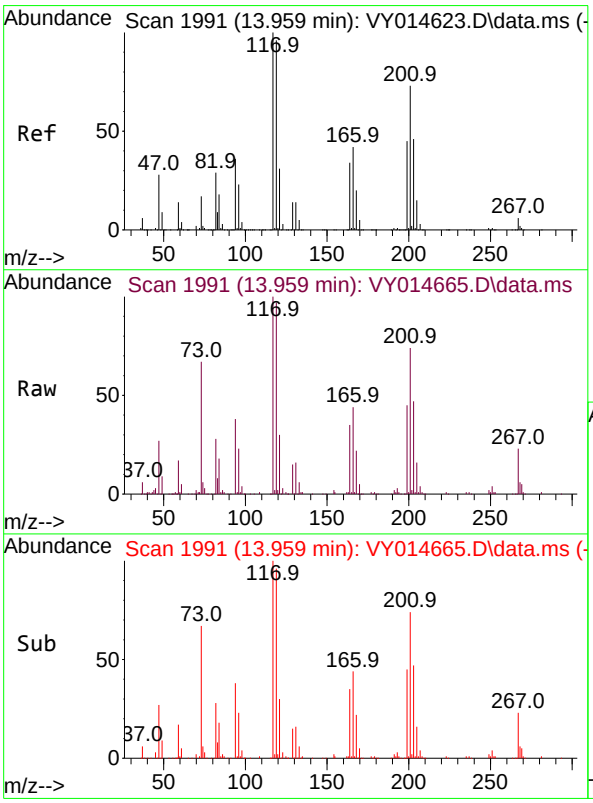
Ion	Ratio	Lower	Upper
91	100		
92	53.7	25.4	76.0
134	26.4	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

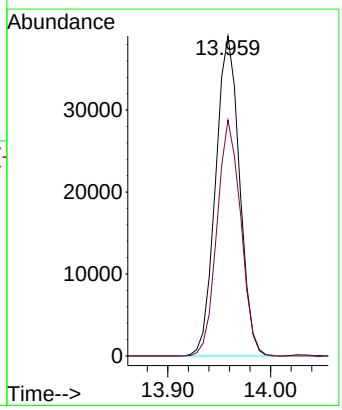
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

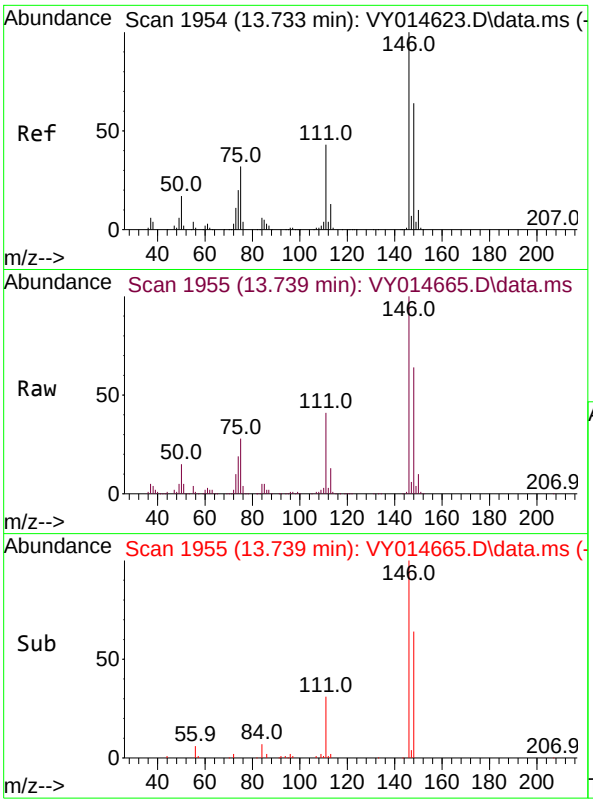


#90
Hexachloroethane
Concen: 20.343 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:117 Resp: 63042

Ion	Ratio	Lower	Upper
117	100		
201	73.3	41.6	124.8

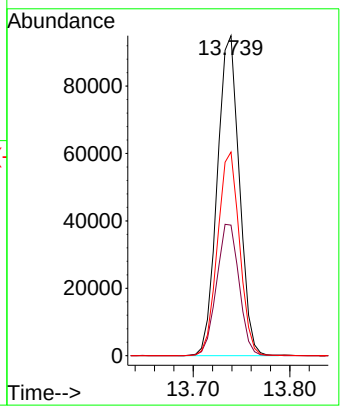




#91
1,2-Dichlorobenzene
Concen: 21.702 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

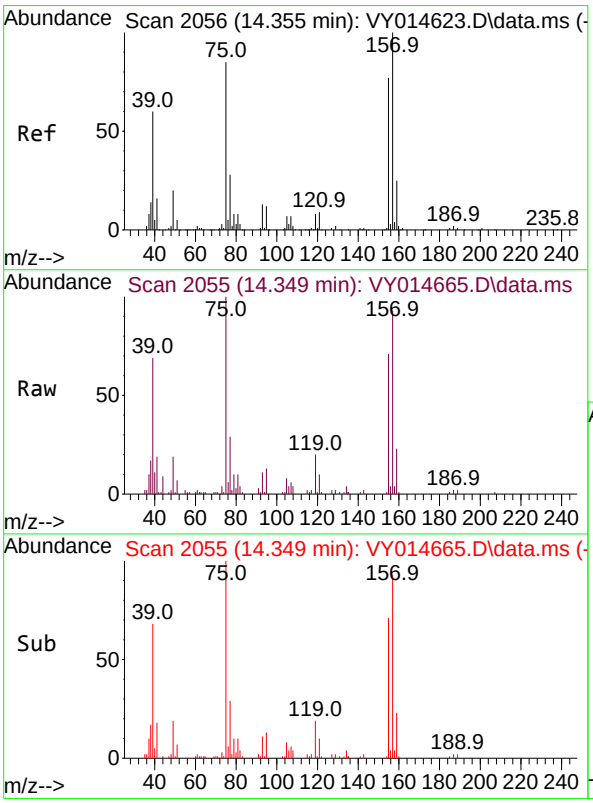
Tgt Ion:146 Resp: 15019

Ion	Ratio	Lower	Upper
146	100		
111	42.0	19.7	59.0
148	63.7	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

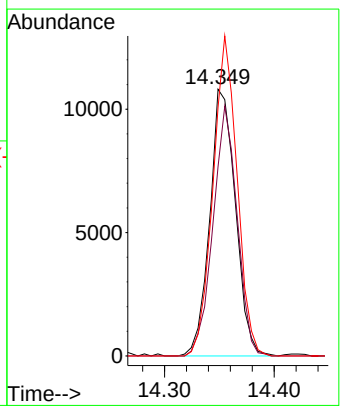
Manual Integrations
APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

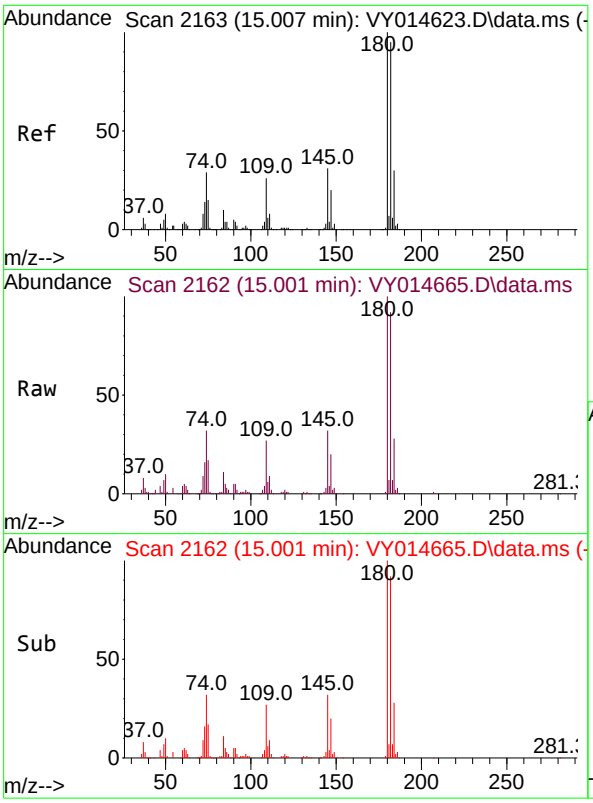


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.733 ug/l
RT: 14.349 min Scan# 2055
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion: 75 Resp: 17599

Ion	Ratio	Lower	Upper
75	100		
155	87.9	41.5	124.6
157	112.6	51.8	155.5

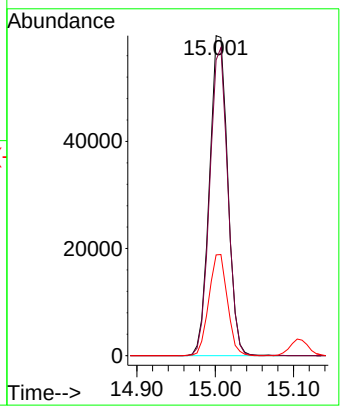




#93
1,2,4-Trichlorobenzene
Concen: 22.022 ug/l
RT: 15.001 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:180 Resp: 9675

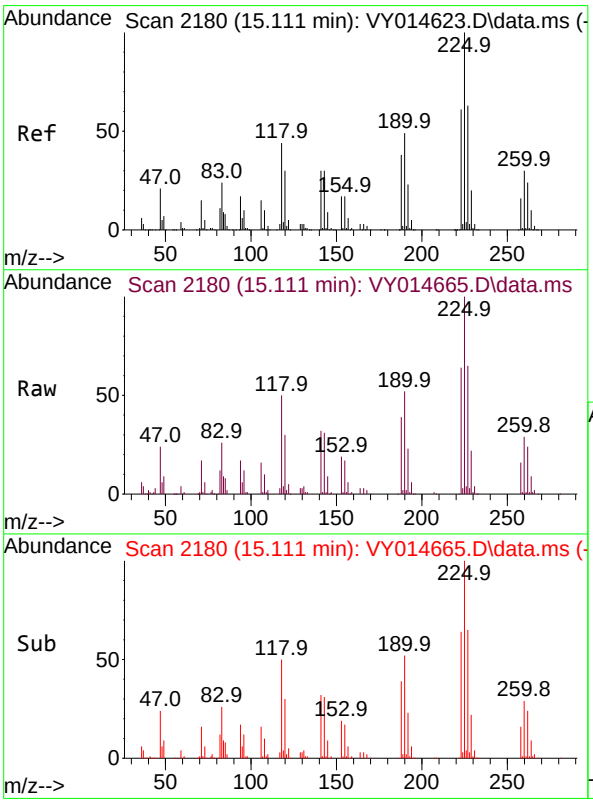
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.0	141.2
145	32.0	14.5	43.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

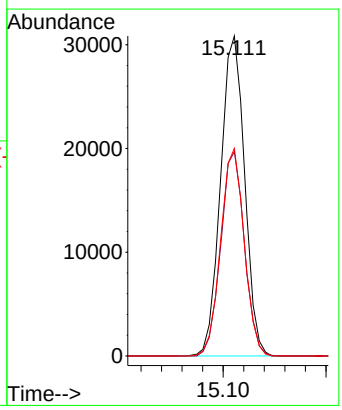
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

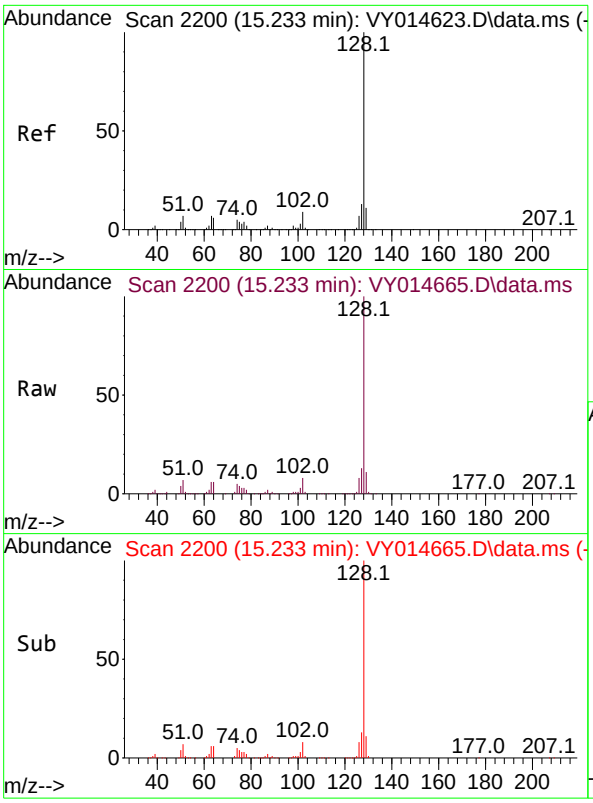


#94
Hexachlorobutadiene
Concen: 20.679 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:225 Resp: 49925

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.9	95.9
227	63.6	33.0	98.9

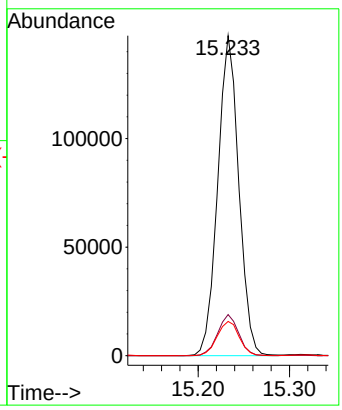




#95
Naphthalene
Concen: 23.060 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:128 Resp: 23603

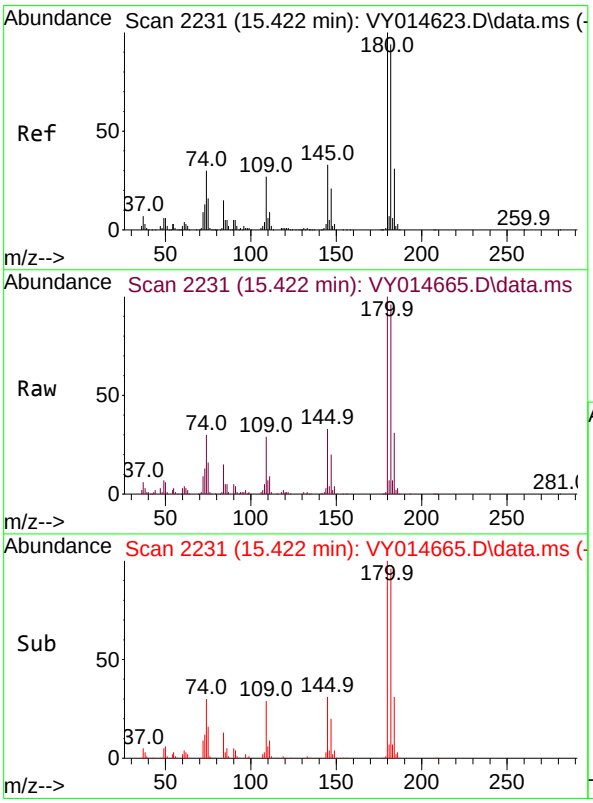
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	11.3	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0717SBS01

Manual Integrations
APPROVED

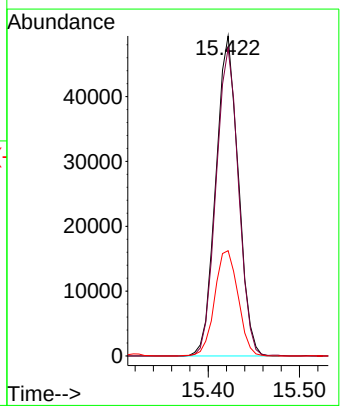
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#96
1,2,3-Trichlorobenzene
Concen: 21.630 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014665.D
Acq: 17 Jul 2023 12:23

Tgt Ion:180 Resp: 84457

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.3	141.8
145	34.3	15.4	46.2



CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBSD01	SDG No.:	O3631
Lab Sample ID:	VN0714WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078512.D	1		07/14/23 11:07	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.9		0.14	1.00	ug/L
74-87-3	Chloromethane	20.9		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	19.0		0.25	1.00	ug/L
74-83-9	Bromomethane	19.0		1.60	5.00	ug/L
75-00-3	Chloroethane	19.0		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.1		0.21	1.00	ug/L
67-64-1	Acetone	100		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	17.0		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.9		0.14	1.00	ug/L
79-20-9	Methyl Acetate	20.5		0.36	1.00	ug/L
75-09-2	Methylene Chloride	21.0		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.16	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.20	1.00	ug/L
74-97-5	Bromochloromethane	19.7		0.14	1.00	ug/L
67-66-3	Chloroform	21.0		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	19.5		0.16	1.00	ug/L
71-43-2	Benzene	20.6		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.6		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.74	5.00	ug/L
108-88-3	Toluene	20.3		0.14	1.00	ug/L

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBSD01	SDG No.:	O3631
Lab Sample ID:	VN0714WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078512.D	1		07/14/23 11:07	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.7		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.15	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.9		0.13	1.00	ug/L
591-78-6	2-Hexanone	110		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	21.5		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.1		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	20.1		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.4		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.8		0.31	2.00	ug/L
1330-20-7	Total Xylenes	60.4		0.46	3.00	ug/L
95-47-6	o-Xylene	19.6		0.15	1.00	ug/L
100-42-5	Styrene	20.1		0.13	1.00	ug/L
75-25-2	Bromoform	20.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	18.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.15	1.00	ug/L
103-65-1	n-propylbenzene	18.8		0.15	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.0		0.17	1.00	ug/L
98-06-6	tert-Butylbenzene	18.5		0.16	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.6		0.16	1.00	ug/L
135-98-8	sec-Butylbenzene	18.8		0.16	1.00	ug/L
99-87-6	p-Isopropyltoluene	19.0		0.16	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.0		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.24	1.00	ug/L
104-51-8	n-Butylbenzene	19.2		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.2		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.1		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.7		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		74 - 125	107%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	613 Pine Avenue	Date Received:	
Client Sample ID:	VN0714WBSD01	SDG No.:	O3631
Lab Sample ID:	VN0714WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN078512.D	1		07/14/23 11:07	VN071423

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	54.0		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	51.4		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		64 - 133	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	423000	8.23			
540-36-3	1,4-Difluorobenzene	722000	9.112			
3114-55-4	Chlorobenzene-d5	652000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	260000	13.8			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078512.D
Acq On : 14 Jul 2023 11:07
Operator : JC\MD
Sample : VN0714WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 03:58:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	423054	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	721606	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	652448	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	260094	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	304239	53.644	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.280%			
35) Dibromofluoromethane	8.177	113	264483	53.993	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.980%			
50) Toluene-d8	10.571	98	951105	51.397	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.800%			
62) 4-Bromofluorobenzene	12.853	95	297122	52.127	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	92754	17.882	ug/l	99
3) Chloromethane	2.371	50	117583	20.857	ug/l	96
4) Vinyl Chloride	2.518	62	138428	18.981	ug/l	98
5) Bromomethane	2.959	94	102043	19.043	ug/l	95
6) Chloroethane	3.124	64	89168	19.022	ug/l	97
7) Trichlorofluoromethane	3.500	101	167304	19.191	ug/l	95
8) Diethyl Ether	3.971	74	59010	20.316	ug/l	82
9) 1,1,2-Trichlorotrifluo...	4.383	101	95048	20.596	ug/l	97
10) Methyl Iodide	4.595	142	123673	19.502	ug/l	98
11) Tert butyl alcohol	5.530	59	88392	101.070	ug/l	99
12) 1,1-Dichloroethene	4.347	96	85313	19.111	ug/l	87
13) Acrolein	4.189	56	94160	109.431	ug/l	95
14) Allyl chloride	5.030	41	112717	18.479	ug/l	93
15) Acrylonitrile	5.736	53	234820	106.269	ug/l	99
16) Acetone	4.447	43	181041	102.476	ug/l	100
17) Carbon Disulfide	4.718	76	218961	16.963	ug/l	97
18) Methyl Acetate	5.036	43	153014	20.460	ug/l	90
19) Methyl tert-butyl Ether	5.812	73	307336	20.896	ug/l	97
20) Methylene Chloride	5.289	84	110233	21.045	ug/l	93
21) trans-1,2-Dichloroethene	5.794	96	97581	19.398	ug/l	95
22) Diisopropyl ether	6.683	45	291200	21.320	ug/l	95
23) Vinyl Acetate	6.618	43	888508	102.326	ug/l #	91
24) 1,1-Dichloroethane	6.583	63	185565	20.163	ug/l	98
25) 2-Butanone	7.494	43	293858	105.667	ug/l	87
26) 2,2-Dichloropropane	7.506	77	153132	20.343	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	115882	19.913	ug/l	94
28) Bromochloromethane	7.824	49	85355	19.690	ug/l	93
29) Tetrahydrofuran	7.853	42	186152	102.013	ug/l	86
30) Chloroform	7.977	83	200826	20.959	ug/l	95
31) Cyclohexane	8.265	56	138935	18.126	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	174931	20.363	ug/l	99
36) 1,1-Dichloropropene	8.377	75	136631	19.317	ug/l	98
37) Ethyl Acetate	7.571	43	121724	20.645	ug/l #	94
38) Carbon Tetrachloride	8.365	117	154494	20.098	ug/l	98
39) Methylcyclohexane	9.606	83	125614	19.456	ug/l	93
40) Benzene	8.612	78	431917	20.612	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071423\
Data File : VN078512.D
Acq On : 14 Jul 2023 11:07
Operator : JC\MD
Sample : VN0714WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 03:58:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.794	41	65298	21.724	ug/l		91
42) 1,2-Dichloroethane	8.677	62	152233	21.359	ug/l		97
43) Isopropyl Acetate	8.694	43	207954	21.422	ug/l		94
44) Trichloroethene	9.359	130	104318	18.471	ug/l		96
45) 1,2-Dichloropropane	9.629	63	109532	20.639	ug/l		99
46) Dibromomethane	9.718	93	80137	21.454	ug/l		93
47) Bromodichloromethane	9.894	83	160170	21.391	ug/l		98
48) Methyl methacrylate	9.688	41	93785	20.854	ug/l		90
49) 1,4-Dioxane	9.706	88	42115	429.407	ug/l		89
51) 4-Methyl-2-Pentanone	10.453	43	628861	108.913	ug/l		94
52) Toluene	10.635	92	263446	20.285	ug/l		95
53) t-1,3-Dichloropropene	10.841	75	158671	20.685	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	172625	21.112	ug/l		97
55) 1,1,2-Trichloroethane	11.024	97	112088	21.906	ug/l		96
56) Ethyl methacrylate	10.882	69	149082	20.843	ug/l		89
57) 1,3-Dichloropropane	11.171	76	180713	20.771	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.171	63	267987	105.133	ug/l		92
59) 2-Hexanone	11.200	43	443900	108.172	ug/l		90
60) Dibromochloromethane	11.365	129	121190	21.454	ug/l		99
61) 1,2-Dibromoethane	11.476	107	111414	21.137	ug/l		98
64) Tetrachloroethene	11.112	164	98466	20.074	ug/l		99
65) Chlorobenzene	11.900	112	282924	19.400	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.965	131	109272	19.477	ug/l		96
67) Ethyl Benzene	11.970	91	487437	19.773	ug/l		99
68) m/p-Xylenes	12.076	106	371521	40.762	ug/l		100
69) o-Xylene	12.406	106	180049	19.558	ug/l		97
70) Styrene	12.418	104	289268	20.085	ug/l		98
71) Bromoform	12.582	173	78086	20.551	ug/l	#	98
73) Isopropylbenzene	12.700	105	446228	18.258	ug/l		99
74) N-amyl acetate	12.500	43	156894	18.628	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.941	83	157097	21.232	ug/l		98
76) 1,2,3-Trichloropropane	13.000	75	123664m	19.670	ug/l		
77) Bromobenzene	12.988	156	110871	19.932	ug/l		95
78) n-propylbenzene	13.041	91	490728	18.775	ug/l		99
79) 2-Chlorotoluene	13.129	91	320695	18.732	ug/l		98
80) 1,3,5-Trimethylbenzene	13.182	105	366315	18.970	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.741	75	41799	17.472	ug/l	#	79
82) 4-Chlorotoluene	13.229	91	300285	18.802	ug/l		98
83) tert-Butylbenzene	13.441	119	302660	18.461	ug/l		96
84) 1,2,4-Trimethylbenzene	13.488	105	366876	19.560	ug/l		99
85) sec-Butylbenzene	13.623	105	390198	18.830	ug/l		100
86) p-Isopropyltoluene	13.735	119	315626	18.968	ug/l		99
87) 1,3-Dichlorobenzene	13.741	146	178141	18.987	ug/l		97
88) 1,4-Dichlorobenzene	13.817	146	170193	18.009	ug/l		98
89) n-Butylbenzene	14.064	91	229016	19.236	ug/l		98
90) Hexachloroethane	14.335	117	61254	19.531	ug/l		83
91) 1,2-Dichlorobenzene	14.112	146	178873	19.157	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	24408	19.698	ug/l		96
93) 1,2,4-Trichlorobenzene	15.400	180	47876	16.066	ug/l		94
94) Hexachlorobutadiene	15.506	225	32539	18.500	ug/l		99
95) Naphthalene	15.653	128	144776	14.211	ug/l		97
96) 1,2,3-Trichlorobenzene	15.847	180	57089	16.661	ug/l		98

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Data File : VN078512.D
Acq On : 14 Jul 2023 11:07
Operator : JC\MD
Sample : VN0714WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 03:58:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

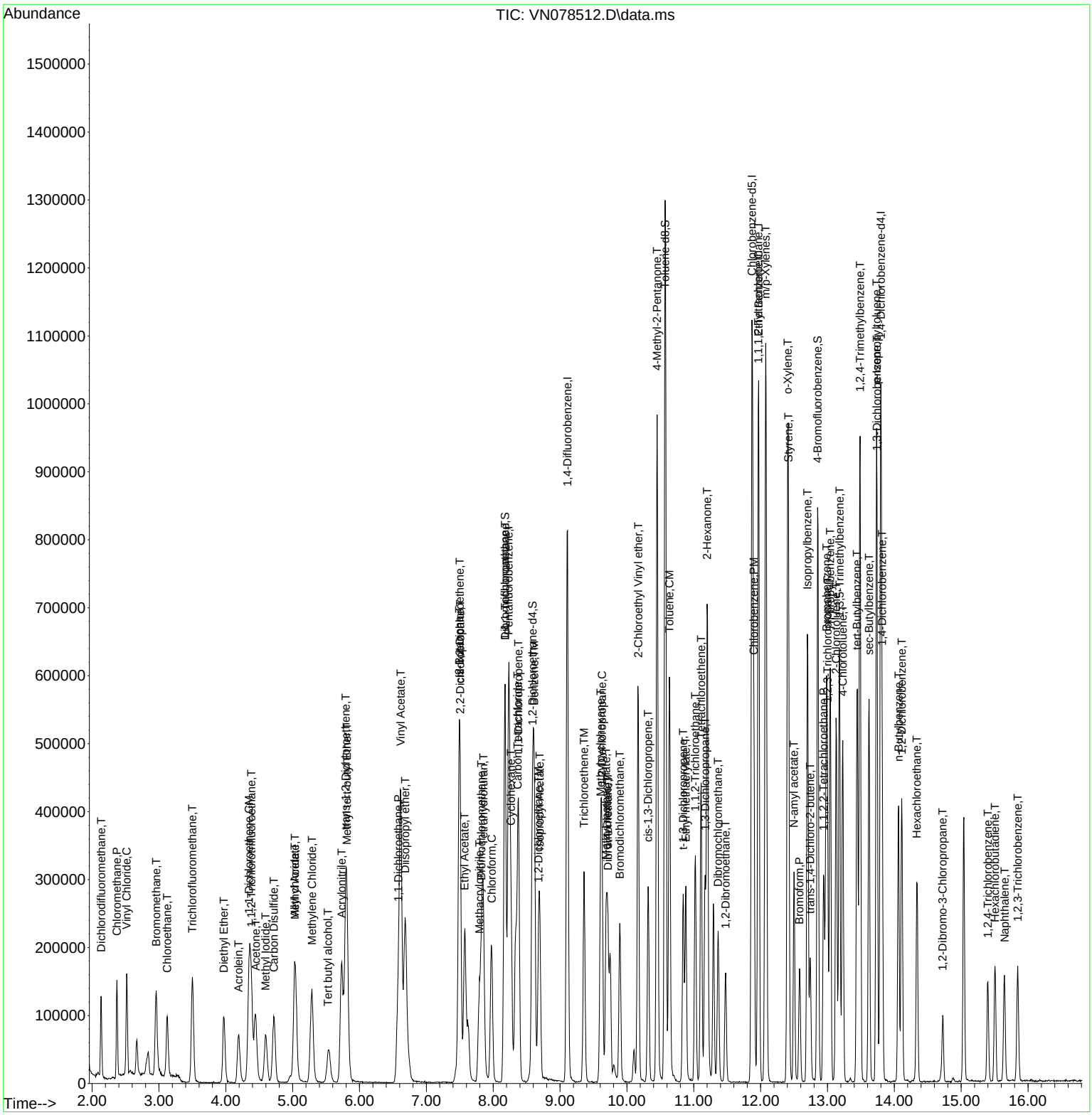
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Sample : VN0714WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

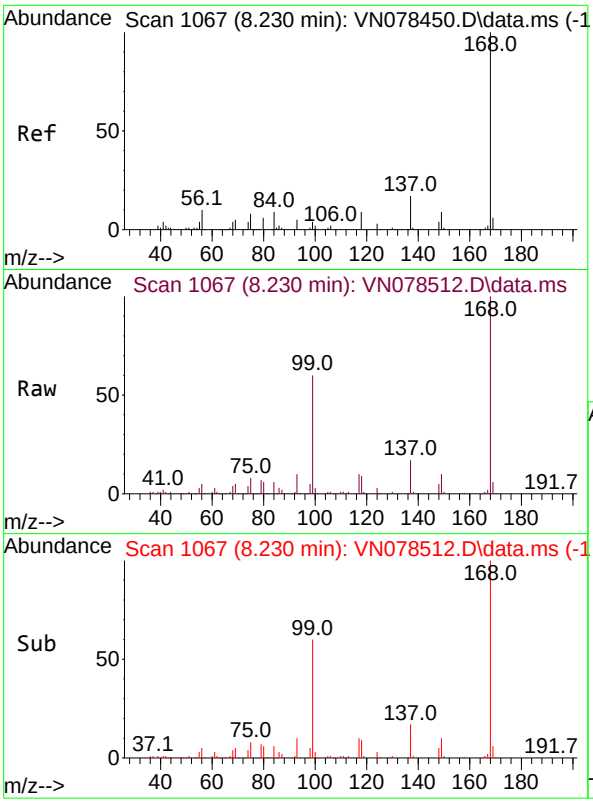
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QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
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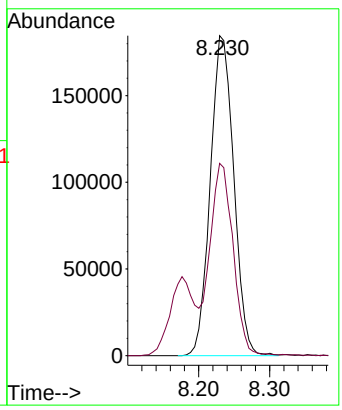




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:168 Resp: 42305

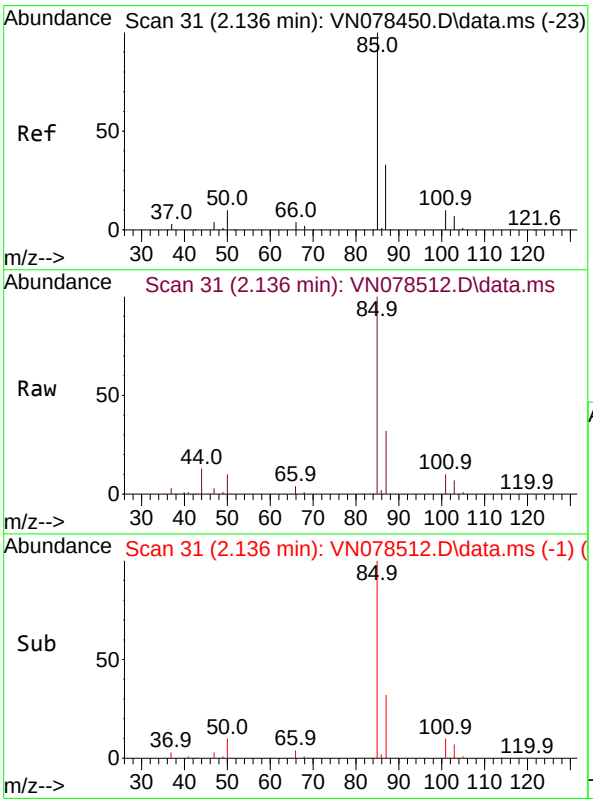
Ion	Ratio	Lower	Upper
168	100		
99	59.9	53.0	79.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

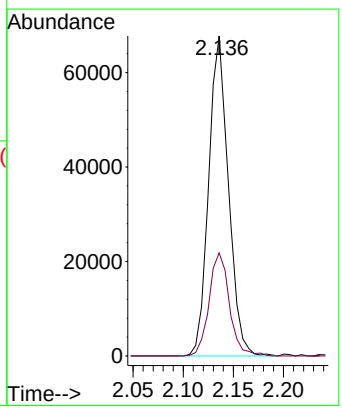
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

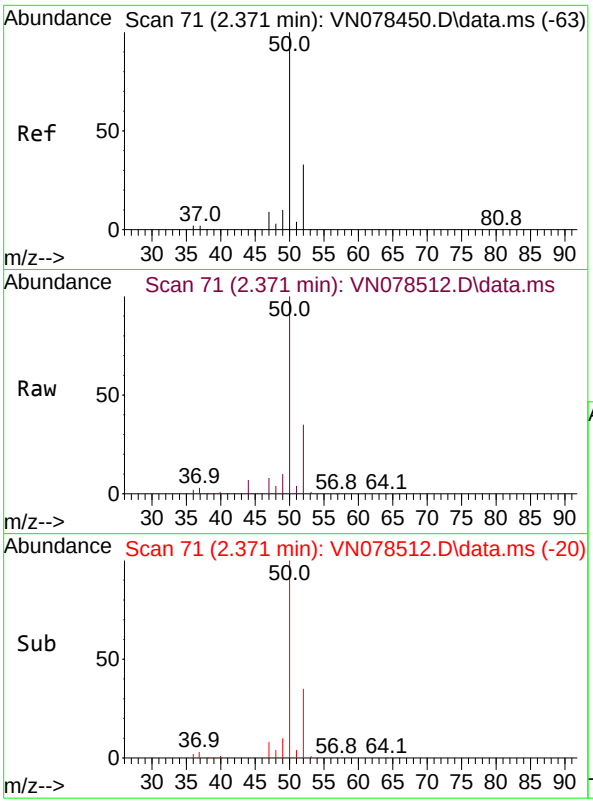


#2
Dichlorodifluoromethane
Concen: 17.882 ug/l
RT: 2.136 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 85 Resp: 92754

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.8	47.4

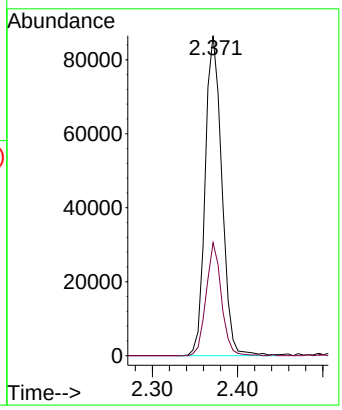




#3
Chloromethane
Concen: 20.857 ug/l
RT: 2.371 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 50 Resp: 11758

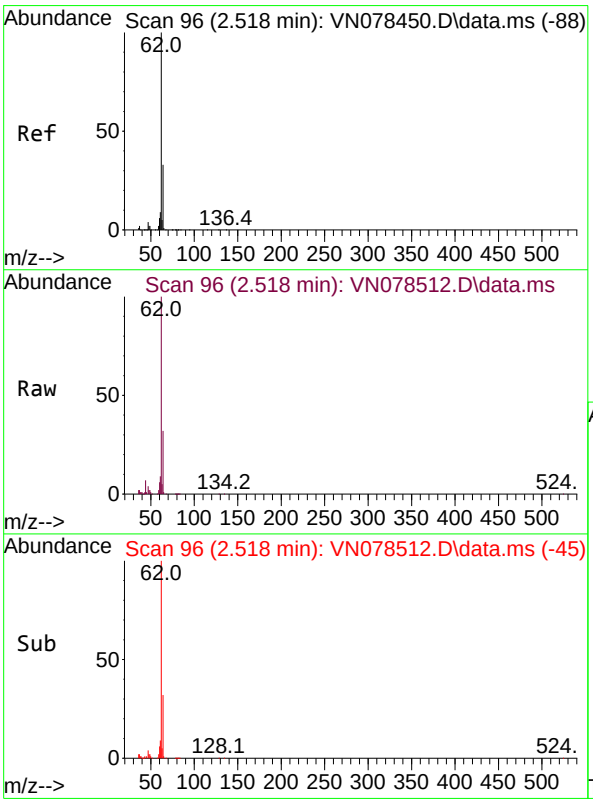
Ion	Ratio	Lower	Upper
50	100		
52	35.3	26.5	39.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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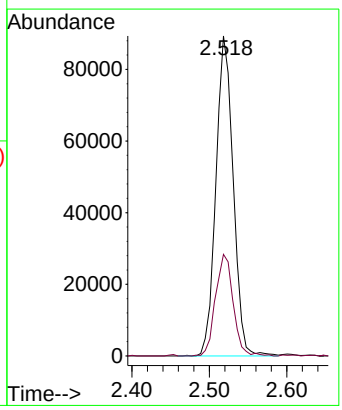
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

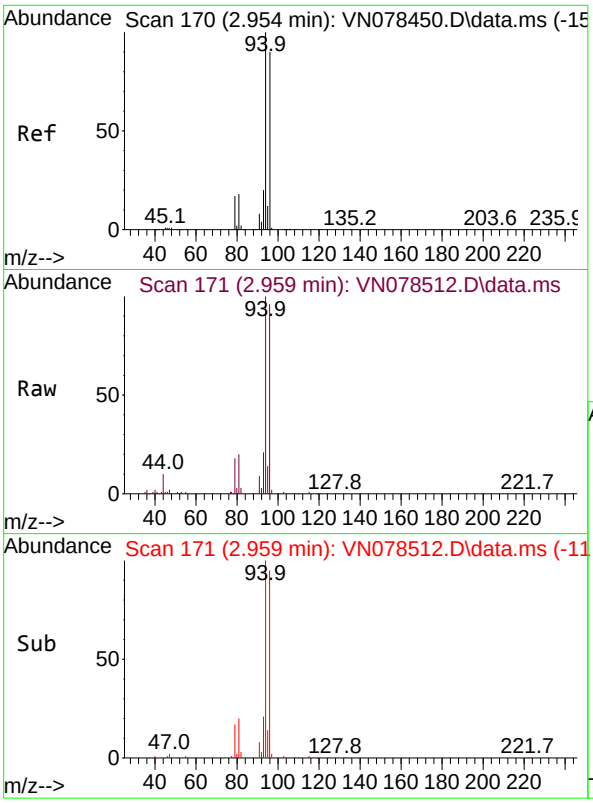


#4
Vinyl Chloride
Concen: 18.981 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 62 Resp: 138428

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.2	39.2

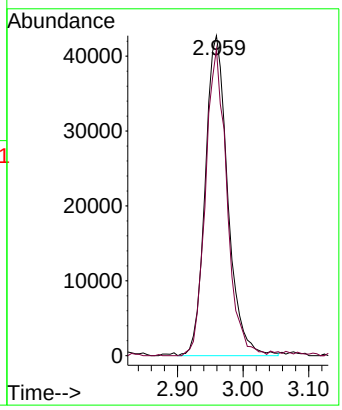




#5
Bromomethane
Concen: 19.043 ug/l
RT: 2.959 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 94 Resp: 10204

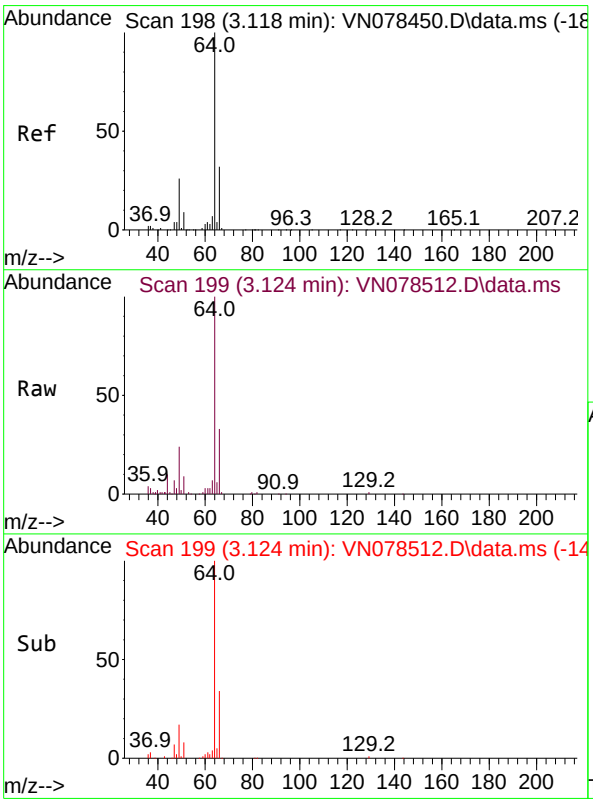
Ion	Ratio	Lower	Upper
94	100		
96	95.9	73.1	109.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

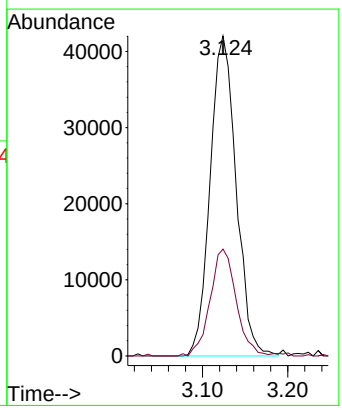
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

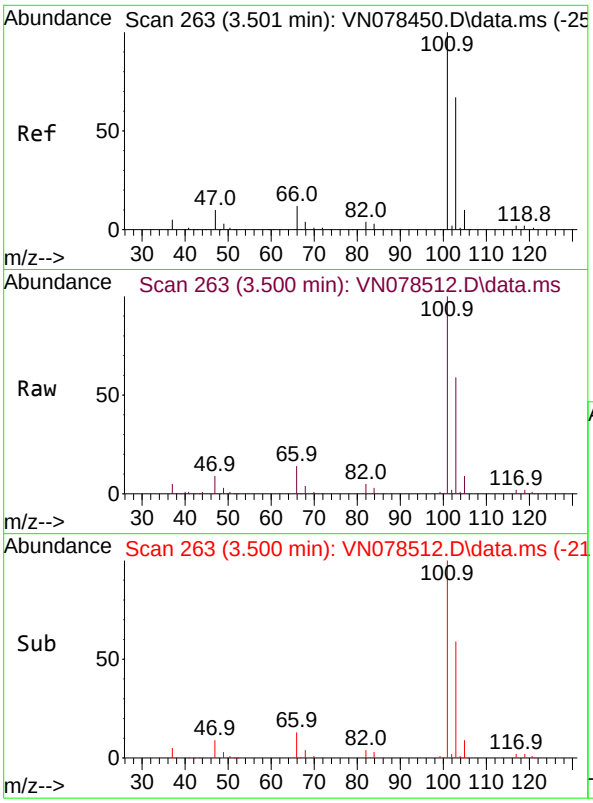


#6
Chloroethane
Concen: 19.022 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 64 Resp: 89168

Ion	Ratio	Lower	Upper
64	100		
66	33.4	25.4	38.2





#7
Trichlorofluoromethane
Concen: 19.191 ug/l
RT: 3.500 min Scan# 2
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

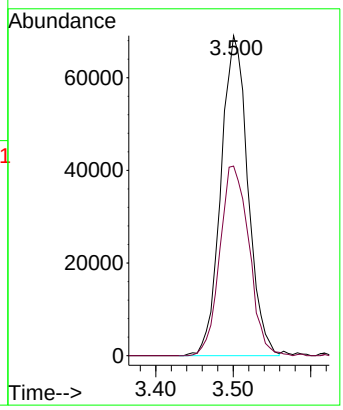
Tgt Ion:101 Resp: 16730

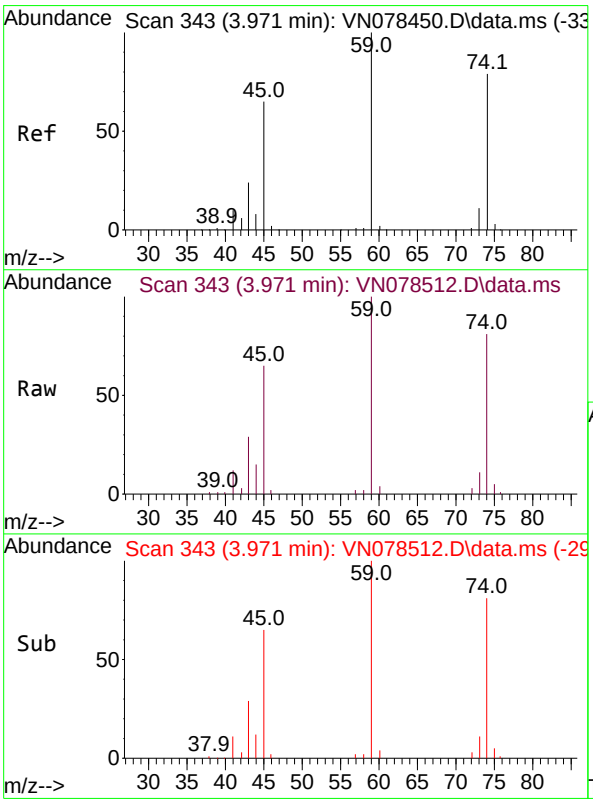
Ion	Ratio	Lower	Upper
101	100		
103	59.3	50.7	76.1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

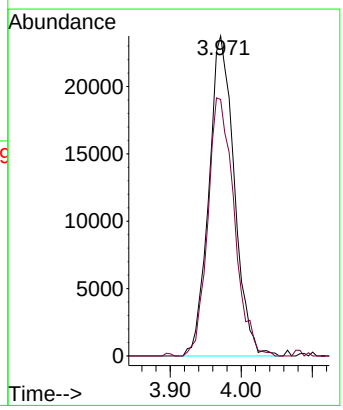


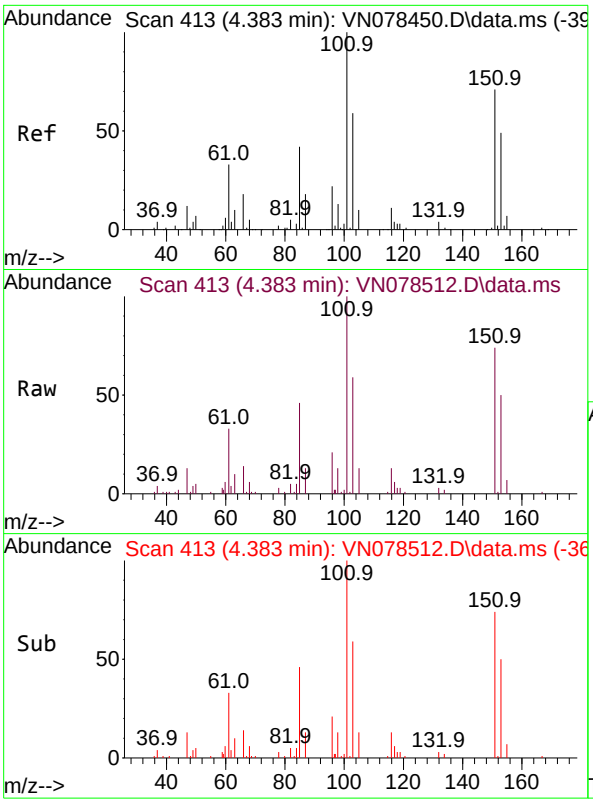


#8
Diethyl Ether
Concen: 20.316 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 74 Resp: 59010

Ion	Ratio	Lower	Upper
74	100		
45	83.5	34.4	103.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.596 ug/l
RT: 4.383 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

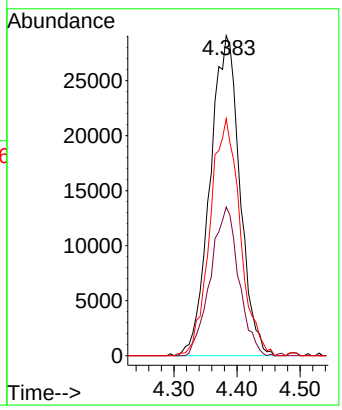
Tgt Ion:101 Resp: 9504

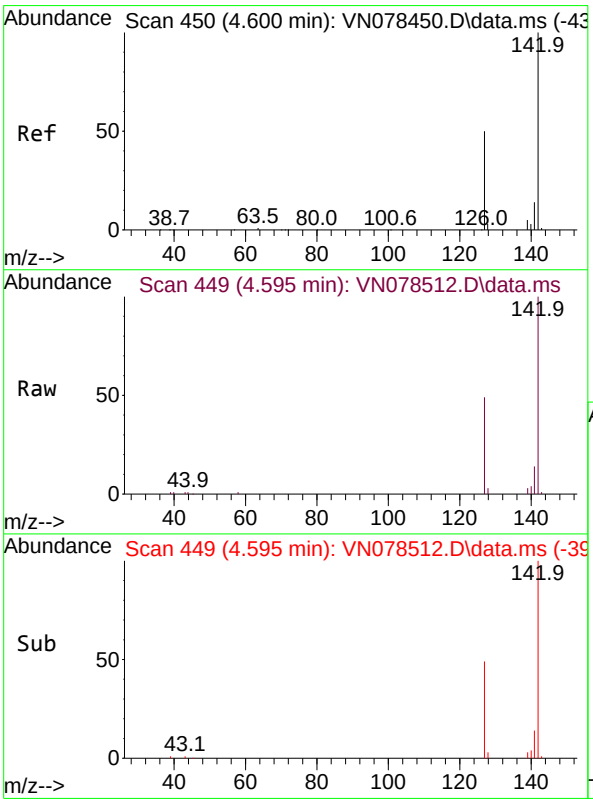
Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.6	55.0
151	74.7	57.6	86.4

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

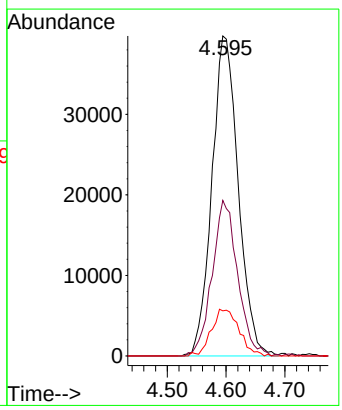


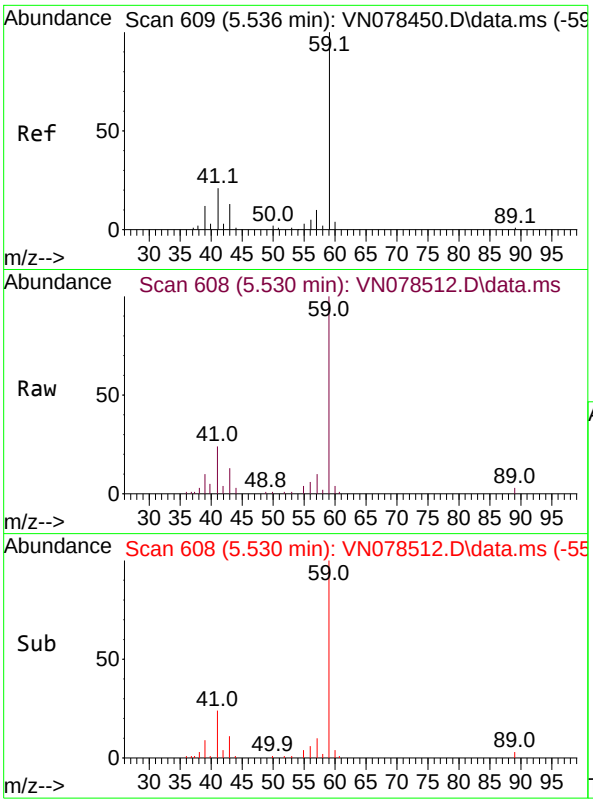


#10
Methyl Iodide
Concen: 19.502 ug/l
RT: 4.595 min Scan# 449
Delta R.T. -0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:142 Resp: 123673

Ion	Ratio	Lower	Upper
142	100		
127	48.6	37.6	56.4
141	14.1	11.4	17.0

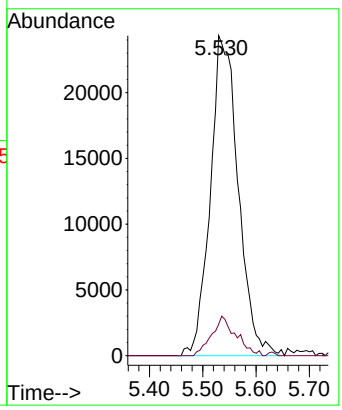




#11
Tert butyl alcohol
Concen: 101.070 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 59 Resp: 8839

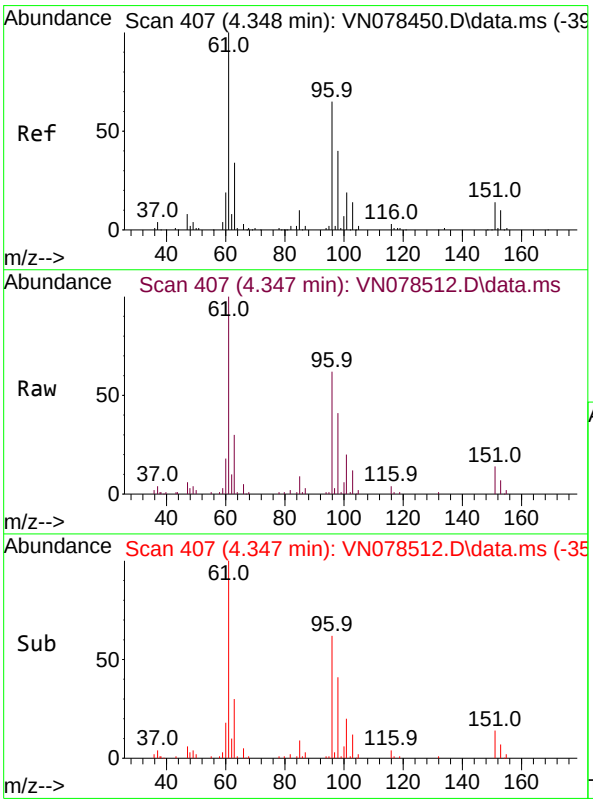
Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

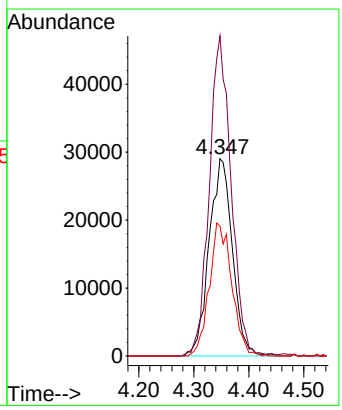
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

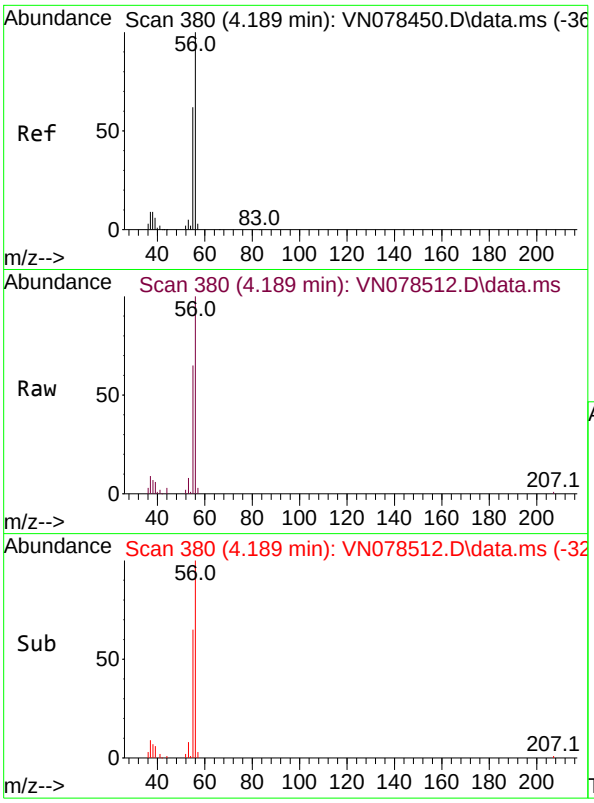


#12
1,1-Dichloroethene
Concen: 19.111 ug/l
RT: 4.347 min Scan# 407
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 96 Resp: 85313

Ion	Ratio	Lower	Upper
96	100		
61	162.2	112.7	169.1
98	65.8	51.2	76.8

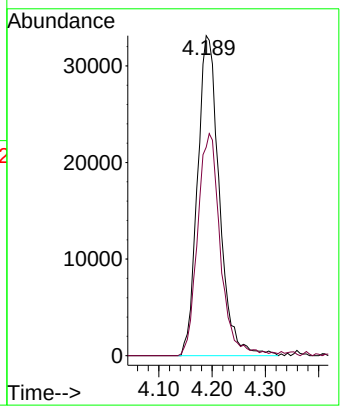




#13
Acrolein
Concen: 109.431 ug/l
RT: 4.189 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 56 Resp: 9416

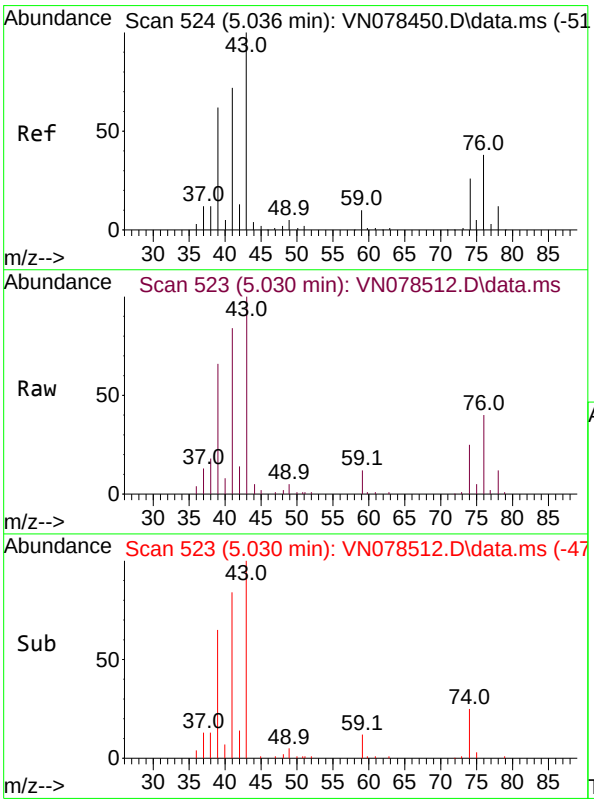
Ion	Ratio	Lower	Upper
56	100		
55	72.0	54.5	81.7



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

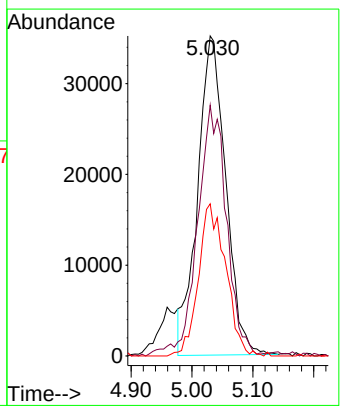
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

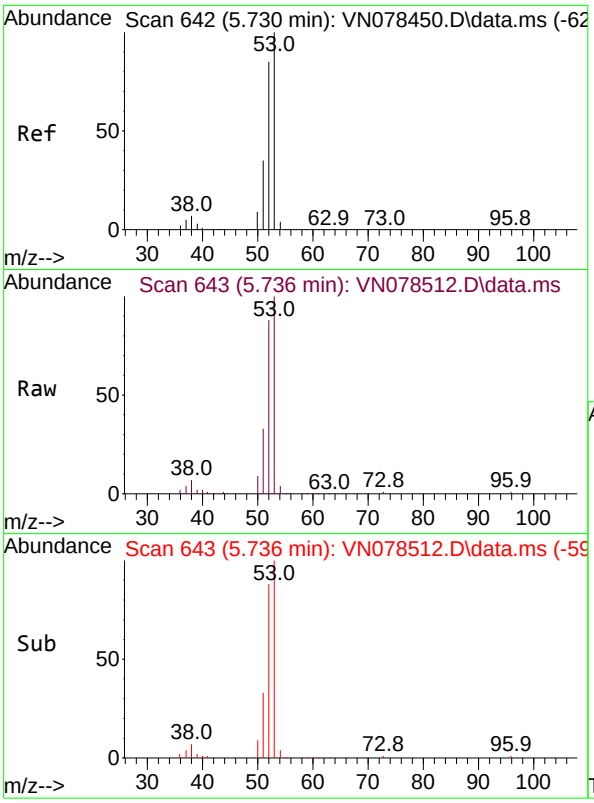


#14
Allyl chloride
Concen: 18.479 ug/l
RT: 5.030 min Scan# 523
Delta R.T. -0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 41 Resp: 112717

Ion	Ratio	Lower	Upper
41	100		
39	81.4	58.8	88.2
76	46.3	39.1	58.7

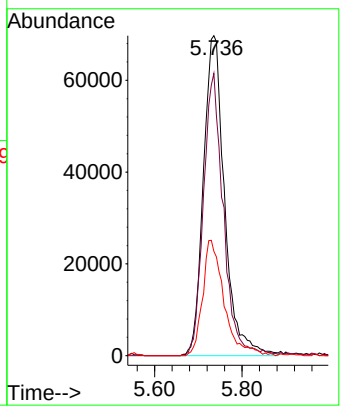




#15
Acrylonitrile
Concen: 106.269 ug/l
RT: 5.736 min Scan# 64
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 53 Resp: 23482

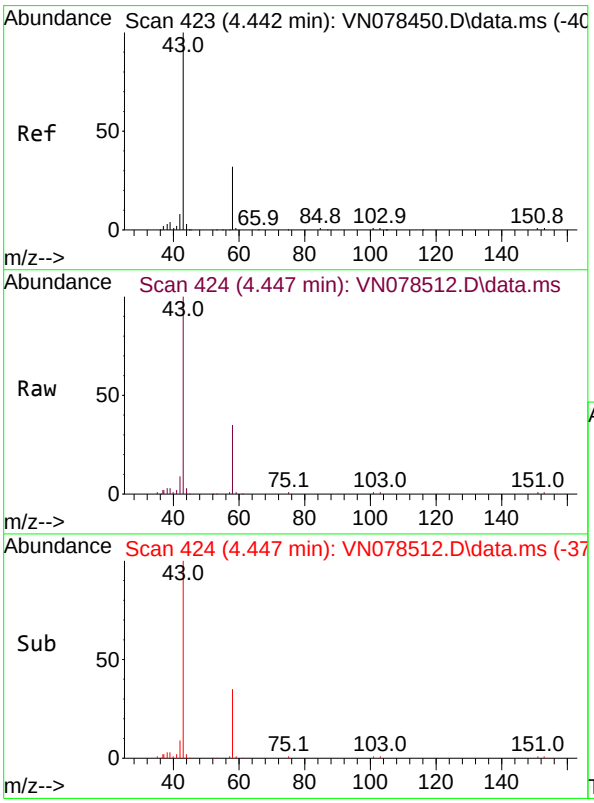
Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.3	97.9
51	36.6	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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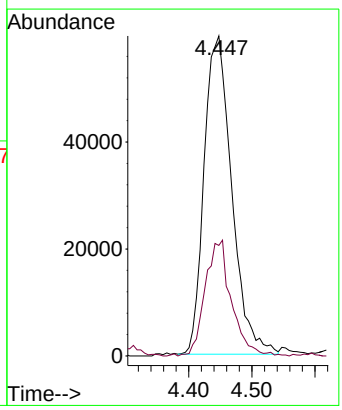
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

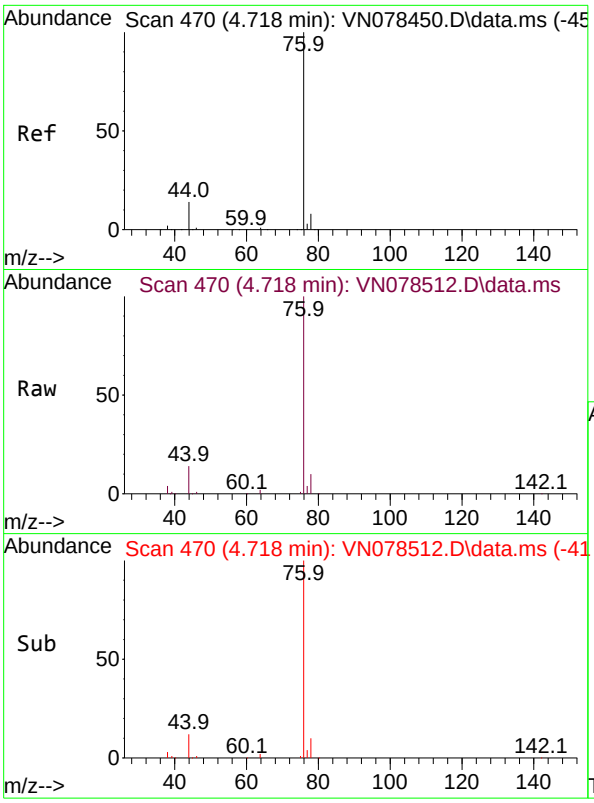


#16
Acetone
Concen: 102.476 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 43 Resp: 181041

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.0	42.0

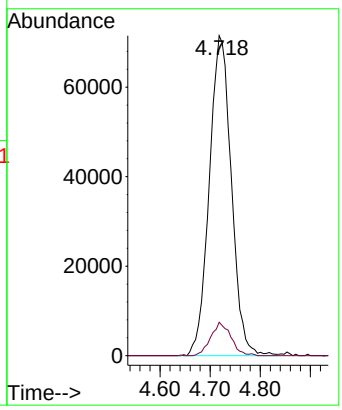




#17
Carbon Disulfide
Concen: 16.963 ug/l
RT: 4.718 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 76 Resp: 21896

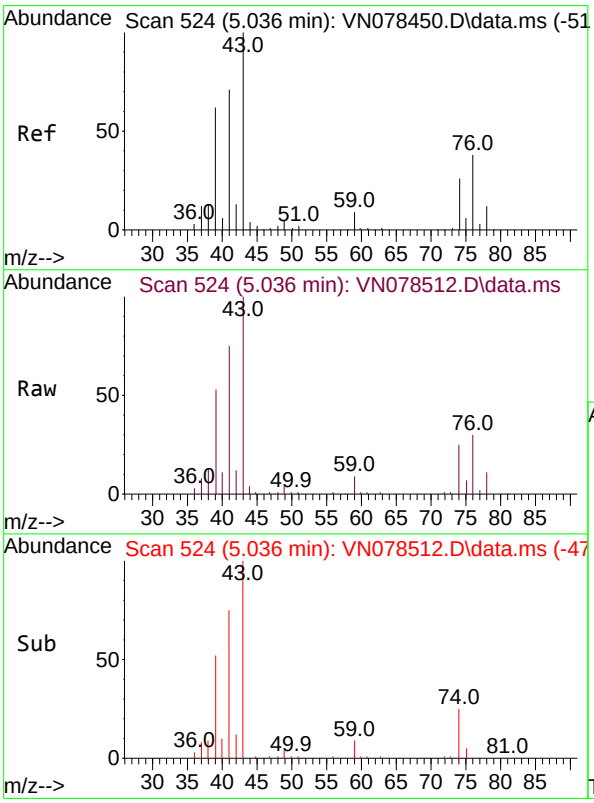
Ion	Ratio	Lower	Upper
76	100		
78	10.4	7.4	11.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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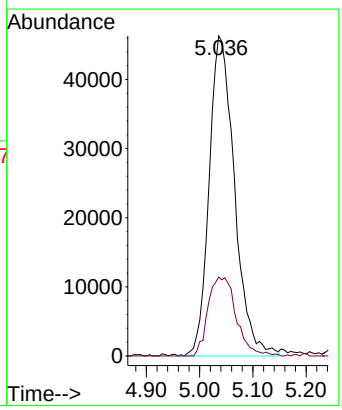
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

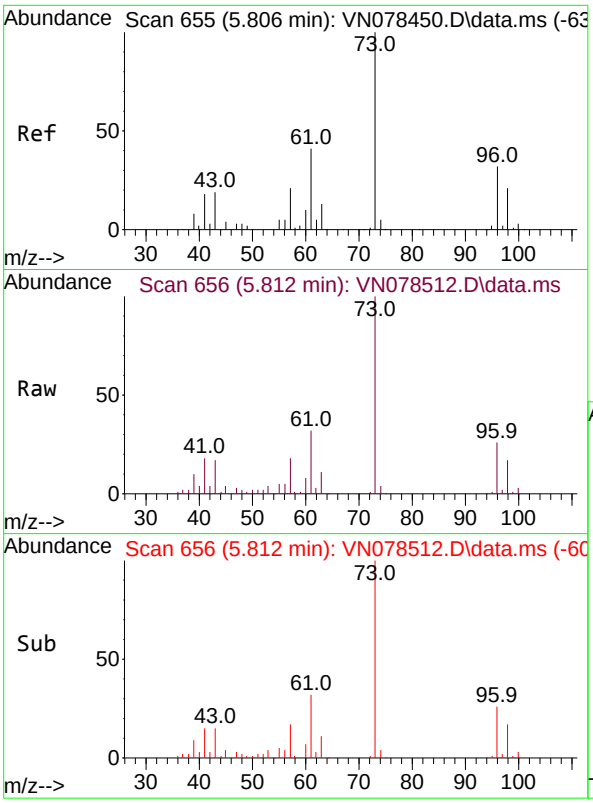


#18
Methyl Acetate
Concen: 20.460 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 43 Resp: 153014

Ion	Ratio	Lower	Upper
43	100		
74	27.3	26.2	39.4

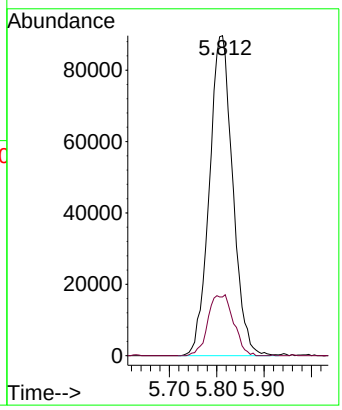




#19
Methyl tert-butyl Ether
Concen: 20.896 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 73 Resp: 30733

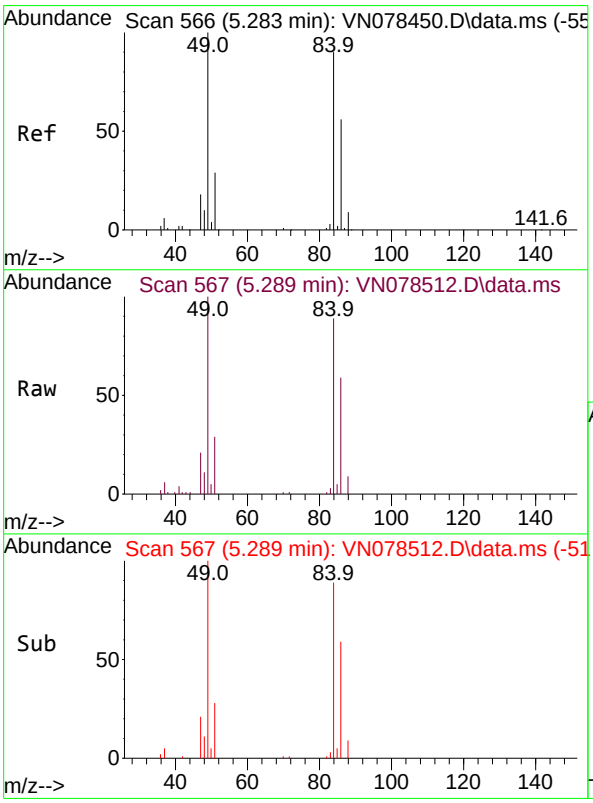
Ion	Ratio	Lower	Upper
73	100		
57	18.3	15.6	23.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

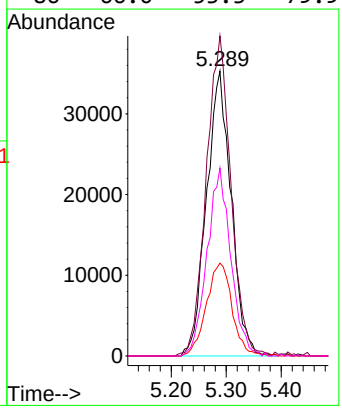
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

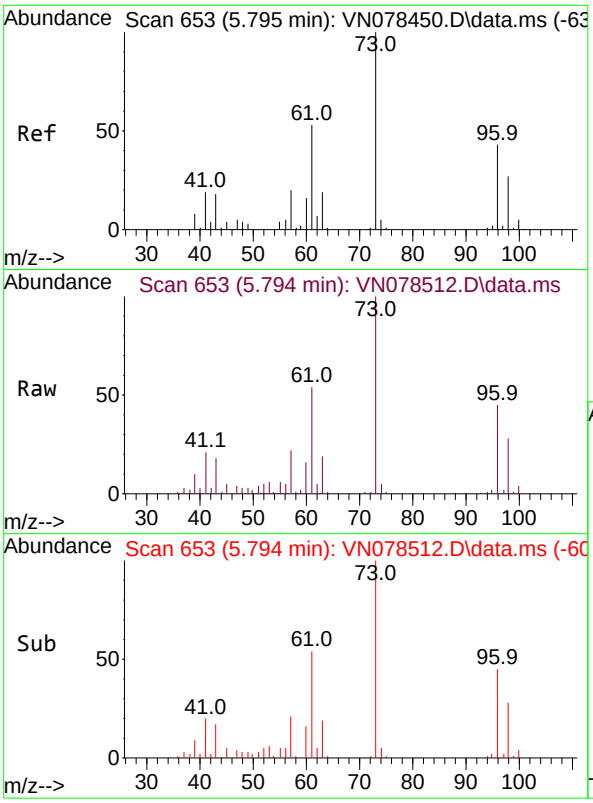


#20
Methylene Chloride
Concen: 21.045 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 84 Resp: 110233

Ion	Ratio	Lower	Upper
84	100		
49	111.8	79.7	119.5
51	32.6	25.2	37.8
86	66.0	53.3	79.9

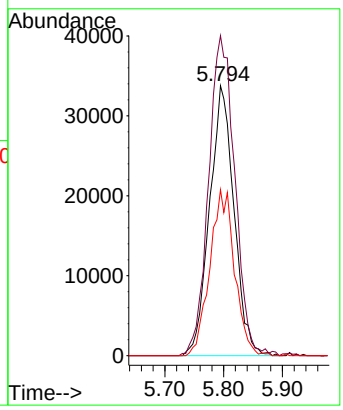




#21
trans-1,2-Dichloroethene
Concen: 19.398 ug/l
RT: 5.794 min Scan# 6
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 96 Resp: 9758

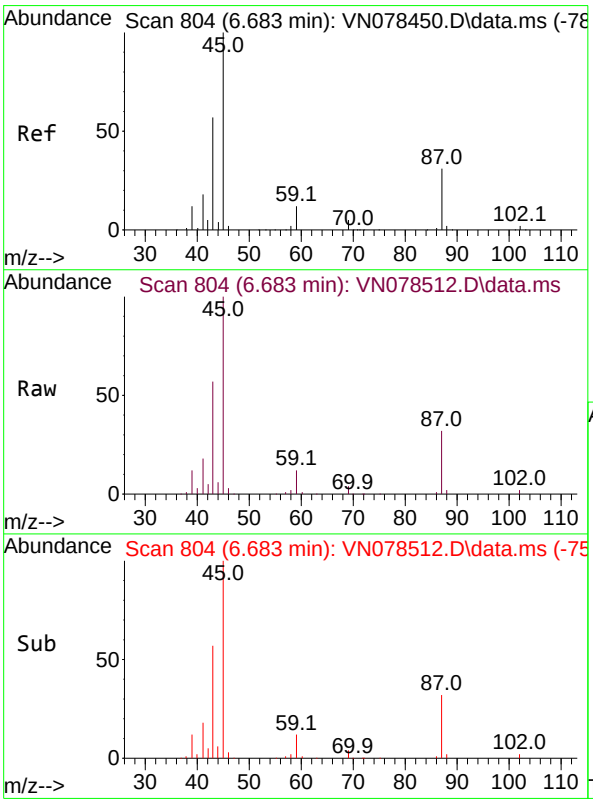
Ion	Ratio	Lower	Upper
96	100		
61	118.6	90.1	135.1
98	61.5	46.4	69.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

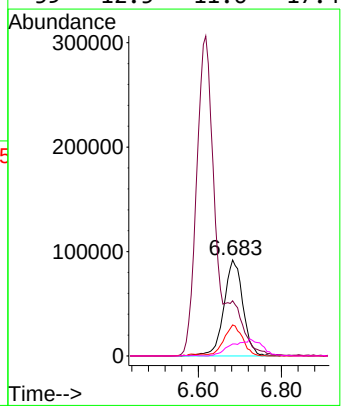
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

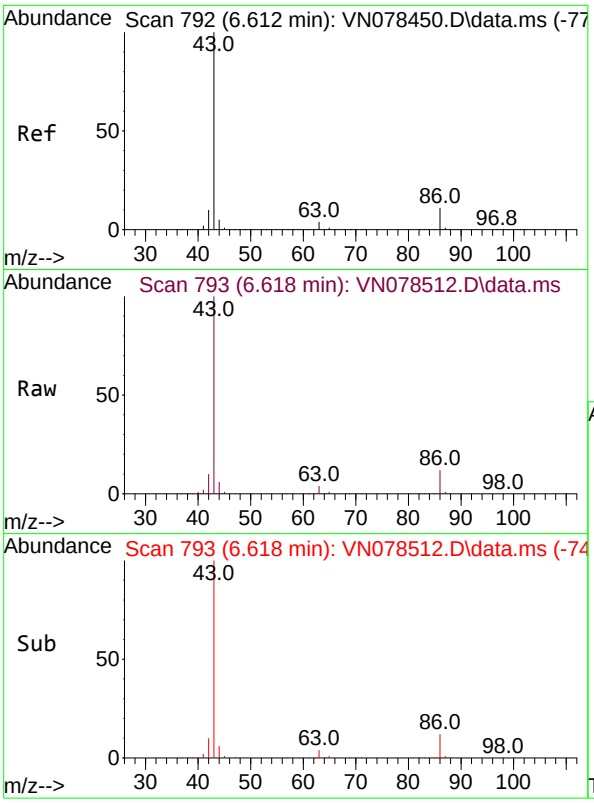


#22
Diisopropyl ether
Concen: 21.320 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 45 Resp: 291200

Ion	Ratio	Lower	Upper
45	100		
43	57.0	45.5	68.3
87	32.3	31.8	47.8
59	12.5	11.6	17.4





#23
Vinyl Acetate
Concen: 102.326 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

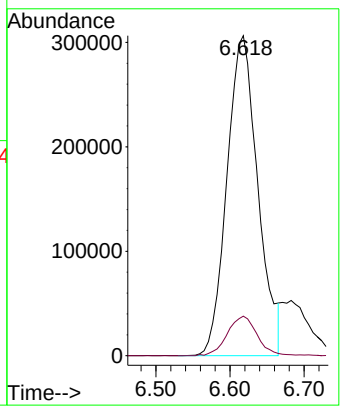
Tgt Ion: 43 Resp: 88850

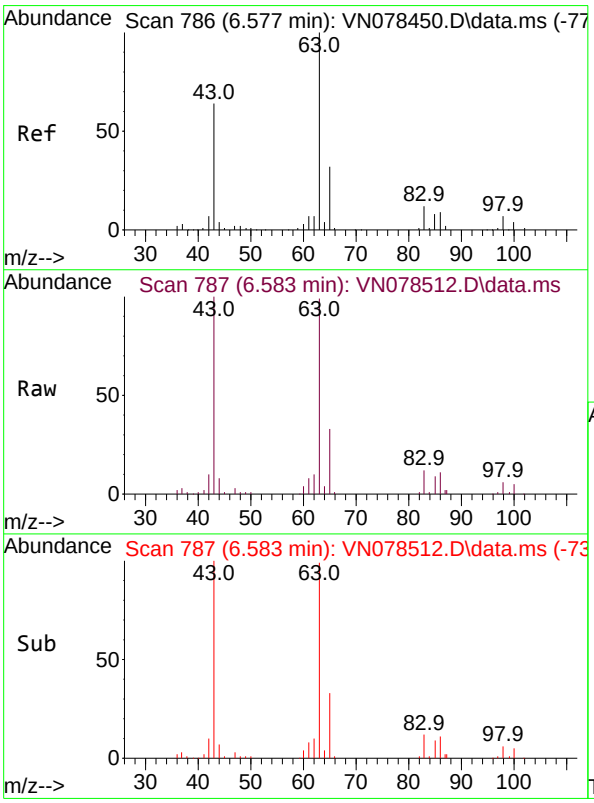
Ion	Ratio	Lower	Upper
43	100		
86	12.4	13.0	19.6

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

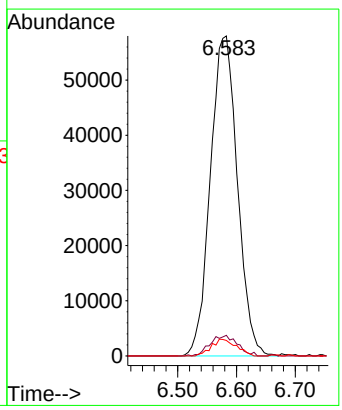


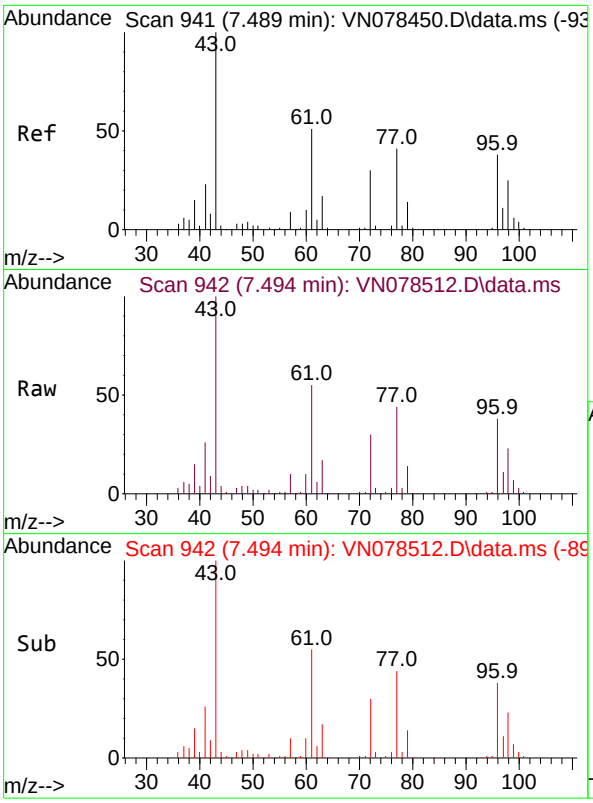


#24
1,1-Dichloroethane
Concen: 20.163 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 63 Resp: 185565

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.9	11.7
100	4.9	2.5	7.4

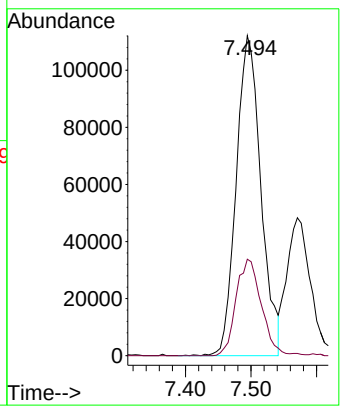




#25
2-Butanone
Concen: 105.667 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 43 Resp: 29385

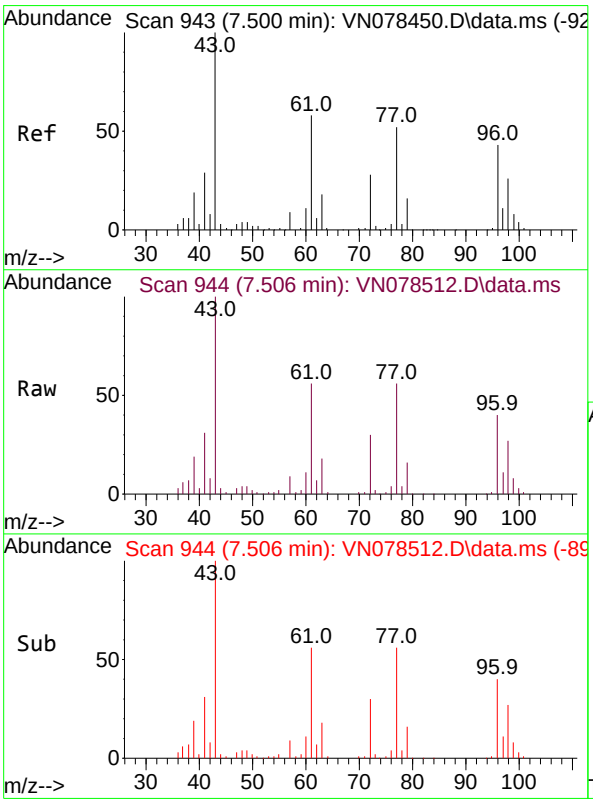
Ion	Ratio	Lower	Upper
43	100		
72	30.2	30.2	45.2



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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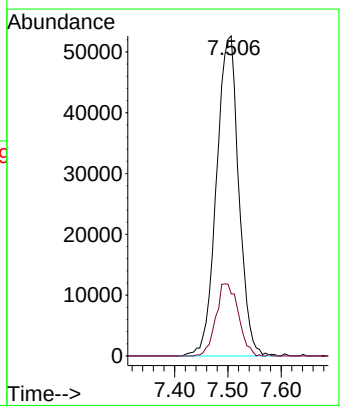
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

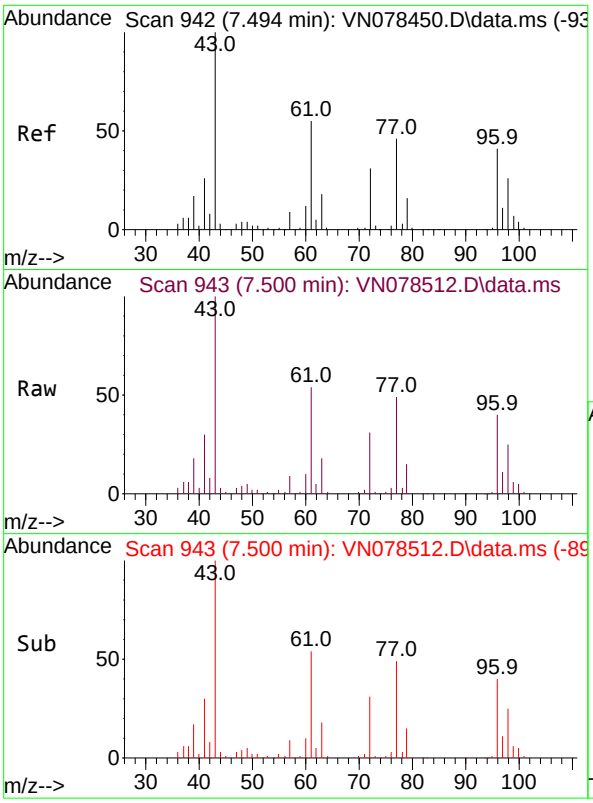


#26
2,2-Dichloropropane
Concen: 20.343 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 77 Resp: 153132

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.2	33.6





#27
cis-1,2-Dichloroethene
Concen: 19.913 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

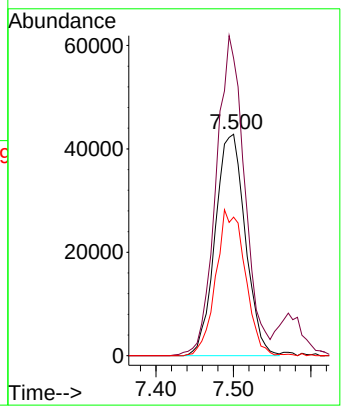
Tgt Ion: 96 Resp: 11588

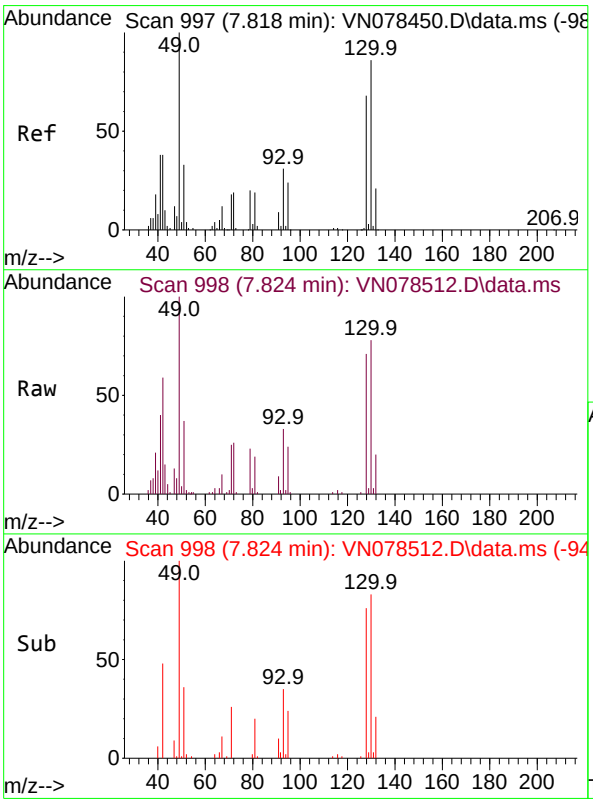
Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	255.2
98	64.0	0.0	128.8

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

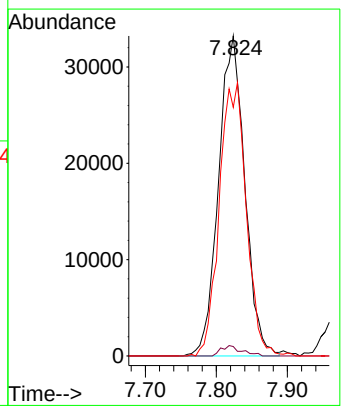


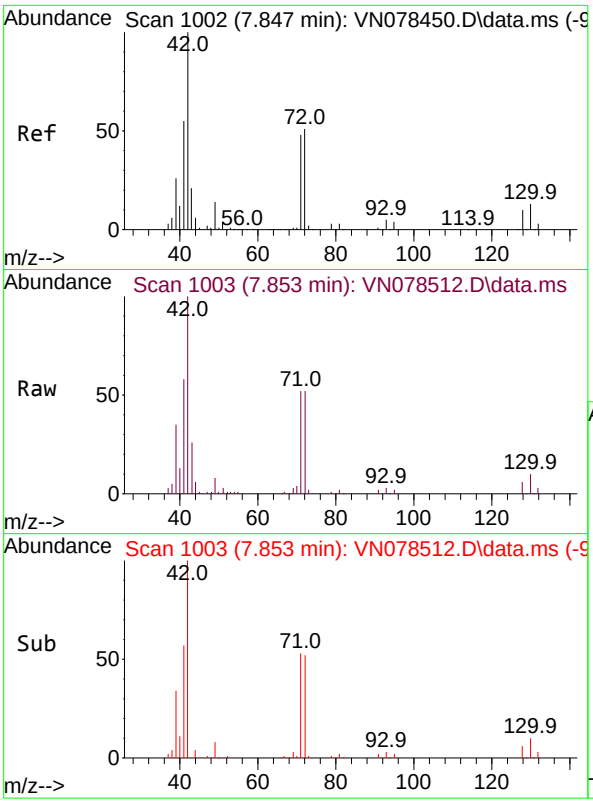


#28
Bromochloromethane
Concen: 19.690 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 49 Resp: 85355

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.8
130	87.2	75.3	112.9





#29
Tetrahydrofuran
Concen: 102.013 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

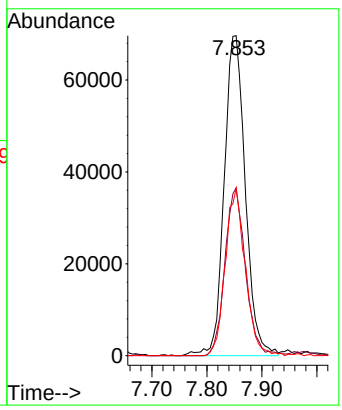
Tgt Ion: 42 Resp: 18615

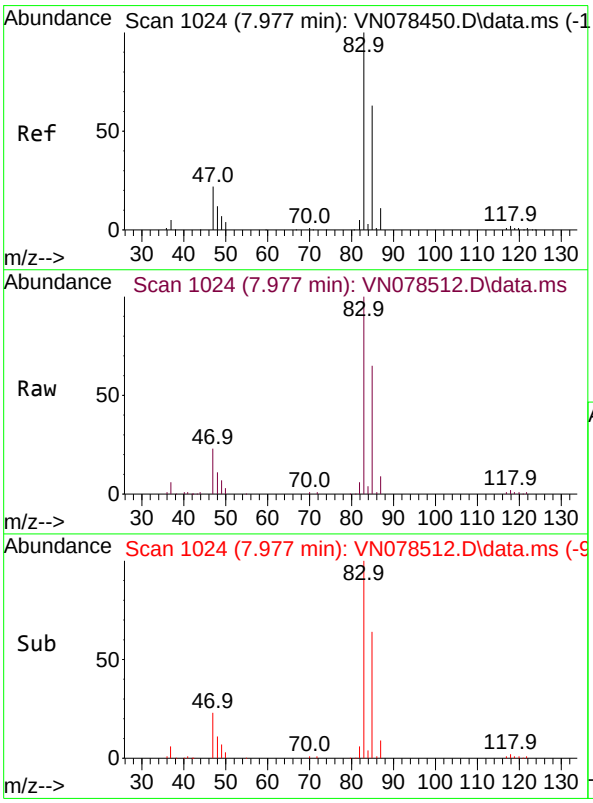
Ion	Ratio	Lower	Upper
42	100		
72	51.0	49.8	74.6
71	49.7	47.4	71.2

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

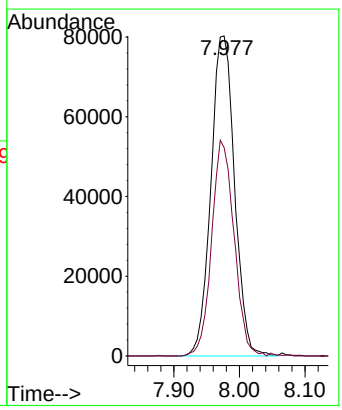


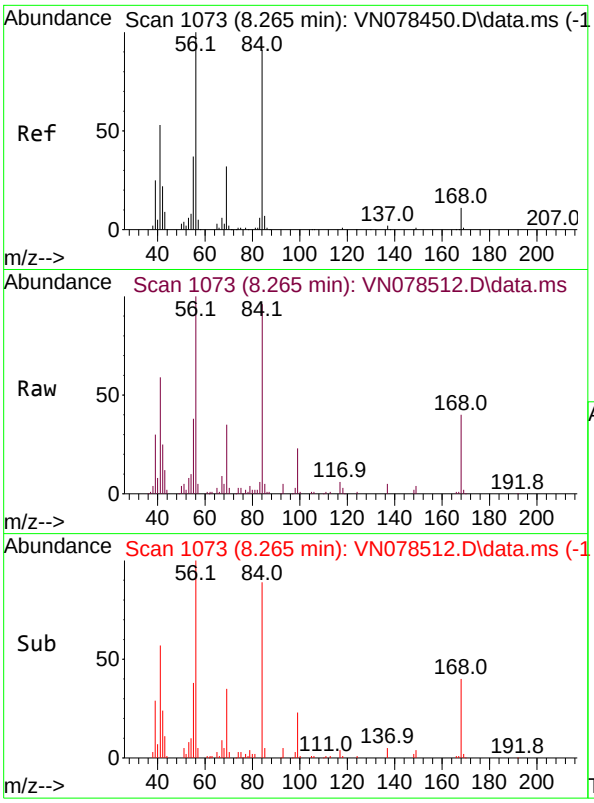


#30
Chloroform
Concen: 20.959 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 83 Resp: 200826

Ion	Ratio	Lower	Upper
83	100		
85	65.1	55.4	83.0

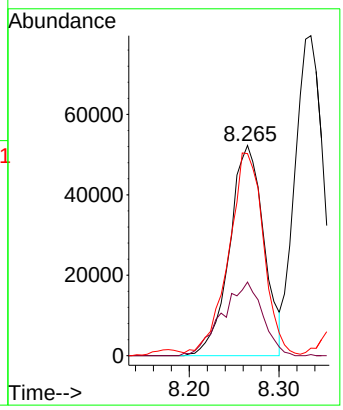




#31
Cyclohexane
Concen: 18.126 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 56 Resp: 13893

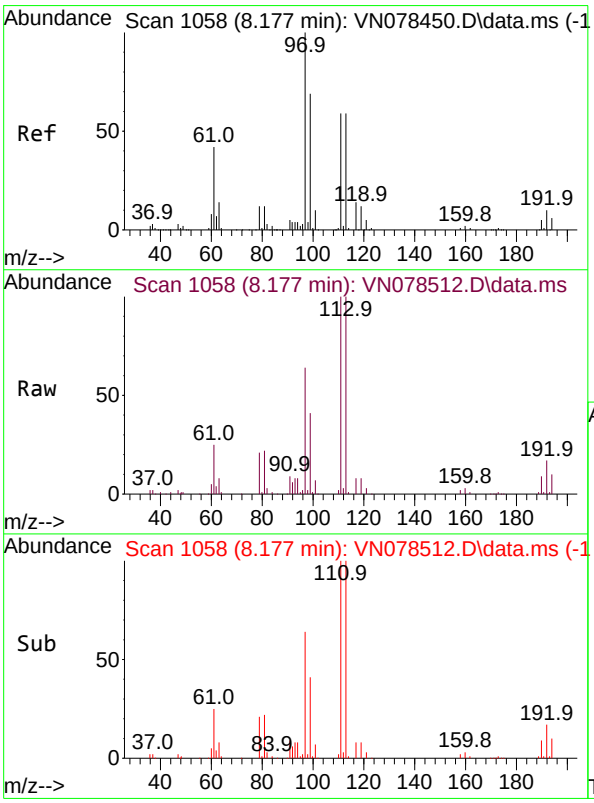
Ion	Ratio	Lower	Upper
56	100		
69	35.0	26.8	40.2
84	94.1	81.8	122.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

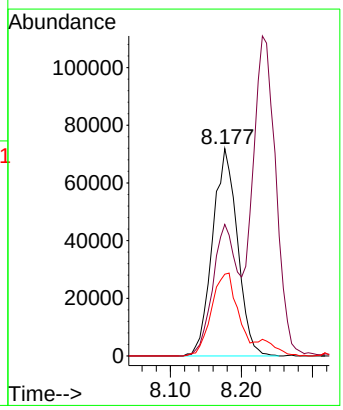
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

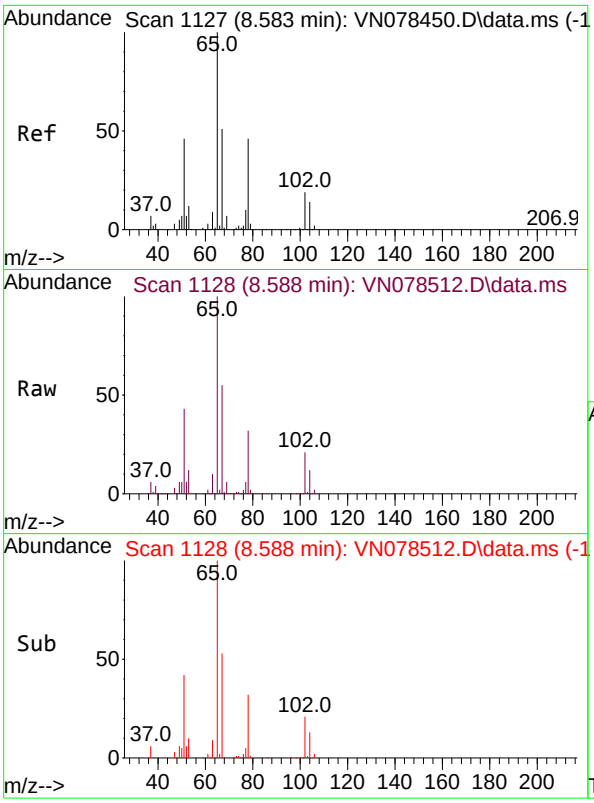


#32
1,1,1-Trichloroethane
Concen: 20.363 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 97 Resp: 174931

Ion	Ratio	Lower	Upper
97	100		
99	62.4	50.3	75.5
61	44.0	34.7	52.1

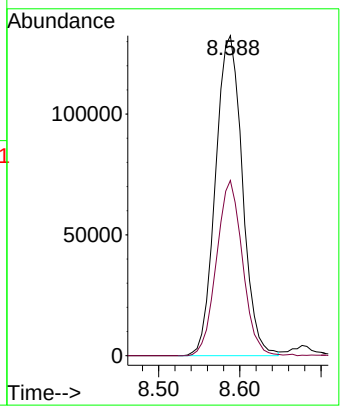




#33
1,2-Dichloroethane-d4
Concen: 53.644 ug/l
RT: 8.588 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 65 Resp: 30423

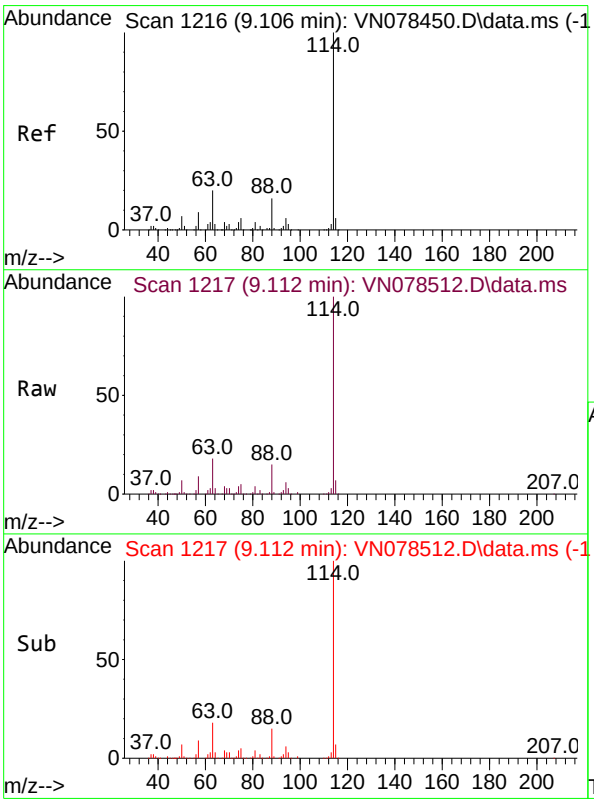
Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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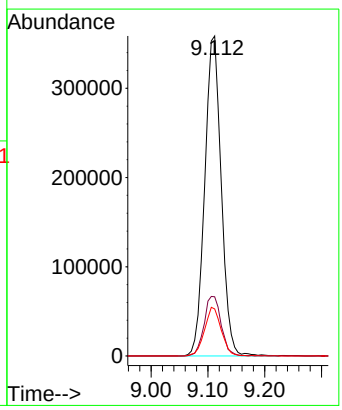
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

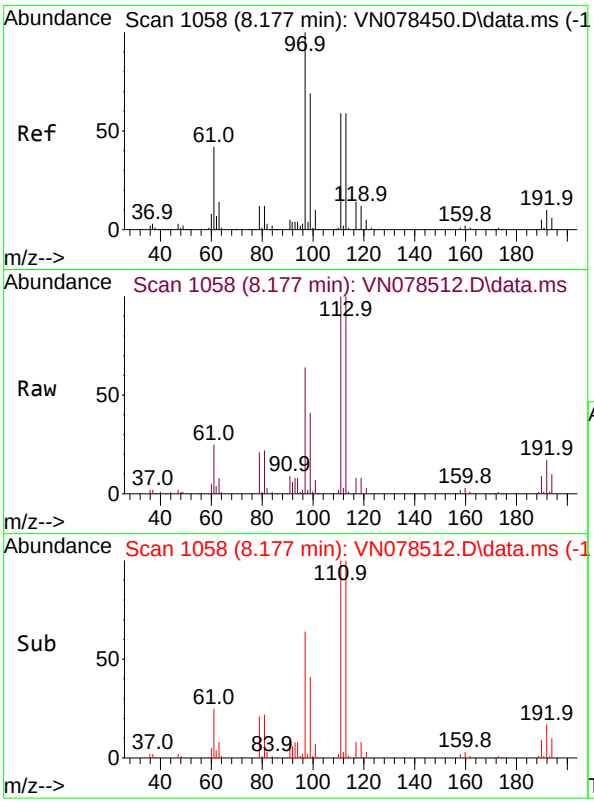


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:114 Resp: 721606

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	36.4
88	14.7	0.0	30.6

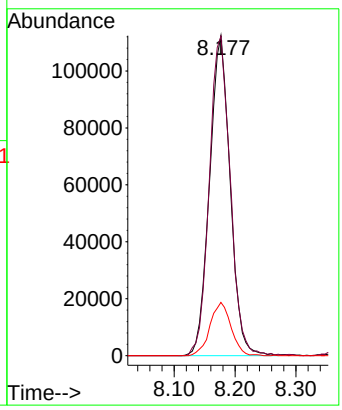




#35
Dibromofluoromethane
Concen: 53.993 ug/l
RT: 8.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:113 Resp: 26448

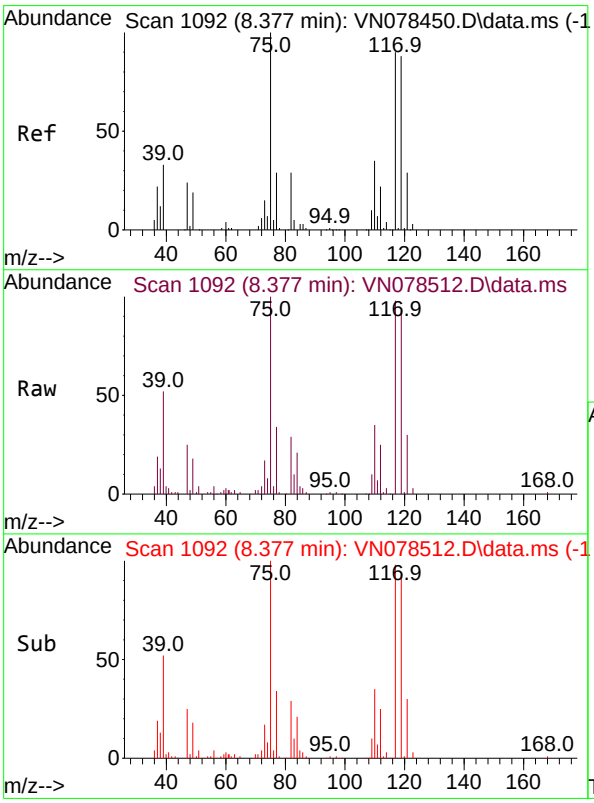
Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.6	123.8
192	17.0	12.7	19.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

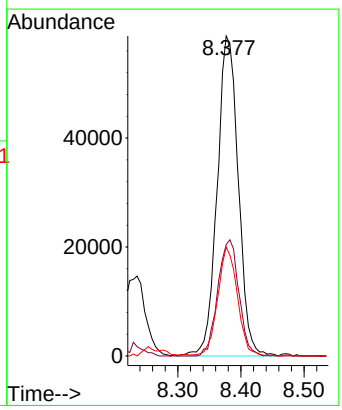
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

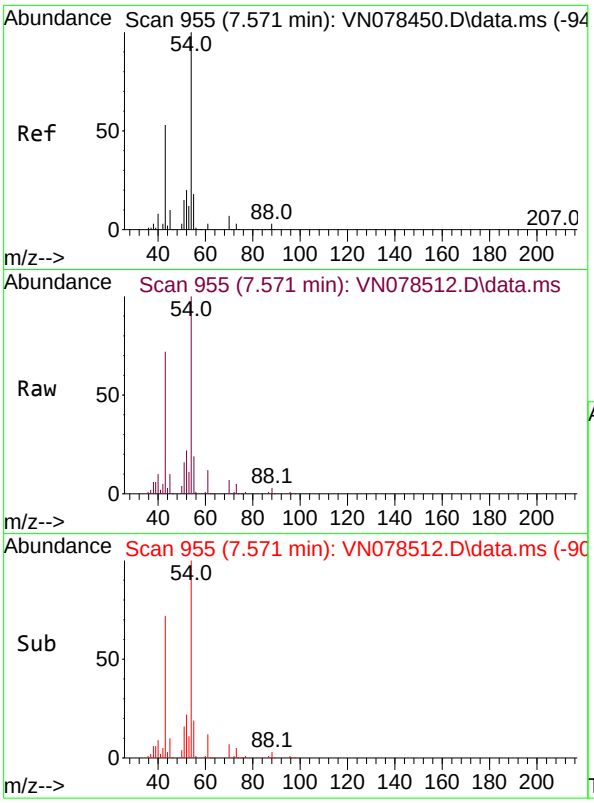


#36
1,1-Dichloropropene
Concen: 19.317 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 75 Resp: 136631

Ion	Ratio	Lower	Upper
75	100		
110	36.3	19.1	57.3
77	31.8	25.0	37.4





#37
Ethyl Acetate
Concen: 20.645 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

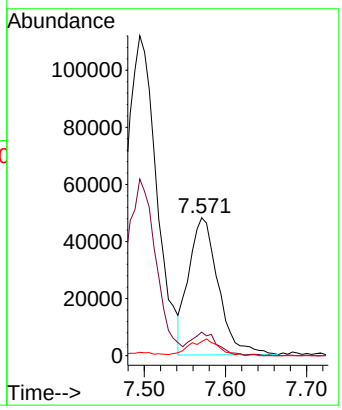
Tgt Ion: 43 Resp: 12172

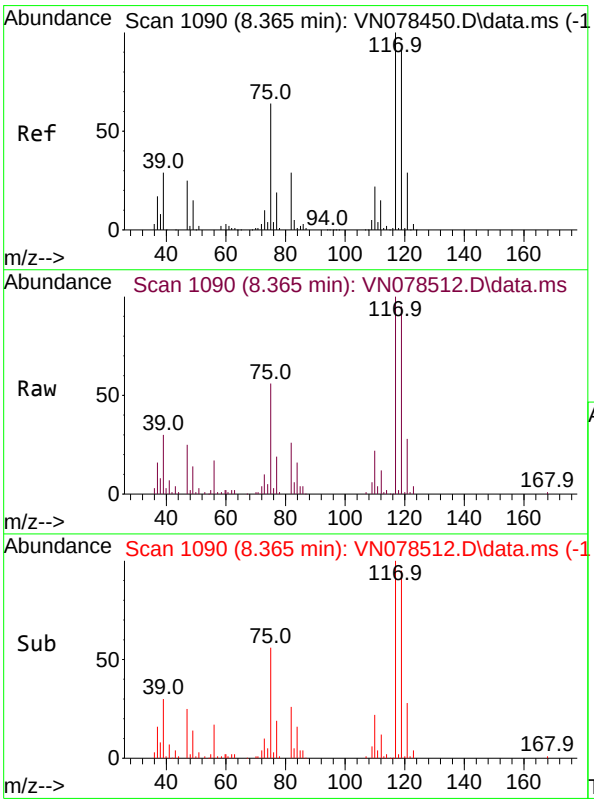
Ion	Ratio	Lower	Upper
43	100		
61	14.3	13.2	19.8
70	10.9	11.3	16.9#

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

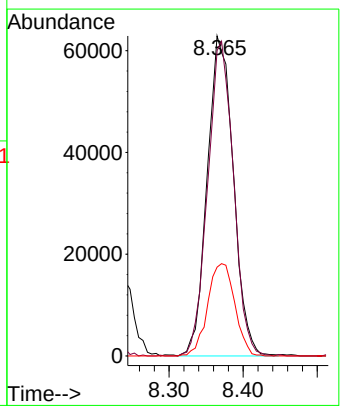


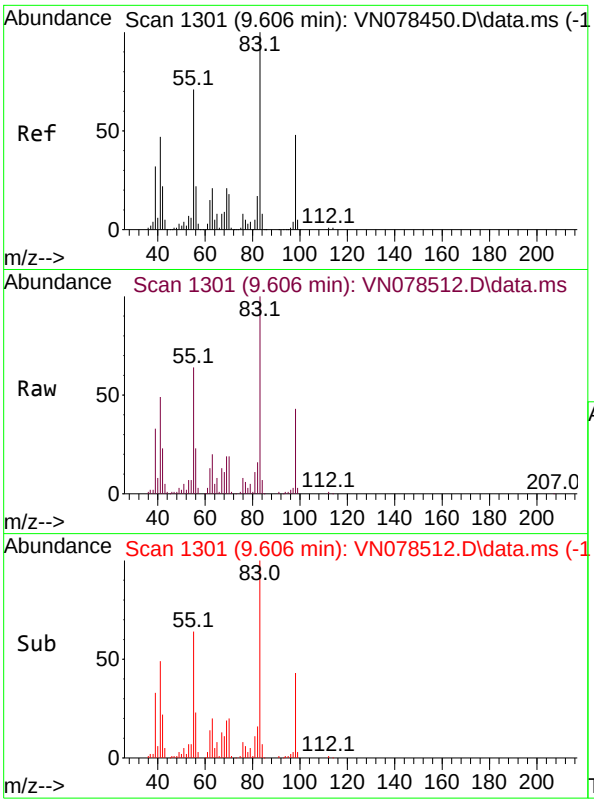


#38
Carbon Tetrachloride
Concen: 20.098 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:117 Resp: 154494

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.3	115.9
121	27.7	23.3	34.9

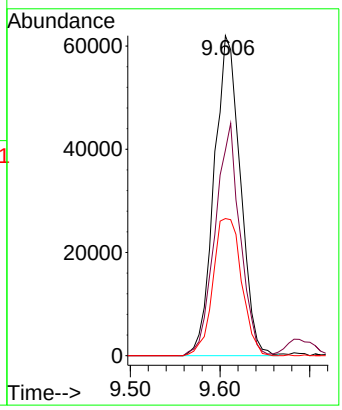




#39
Methylcyclohexane
Concen: 19.456 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 83 Resp: 12561

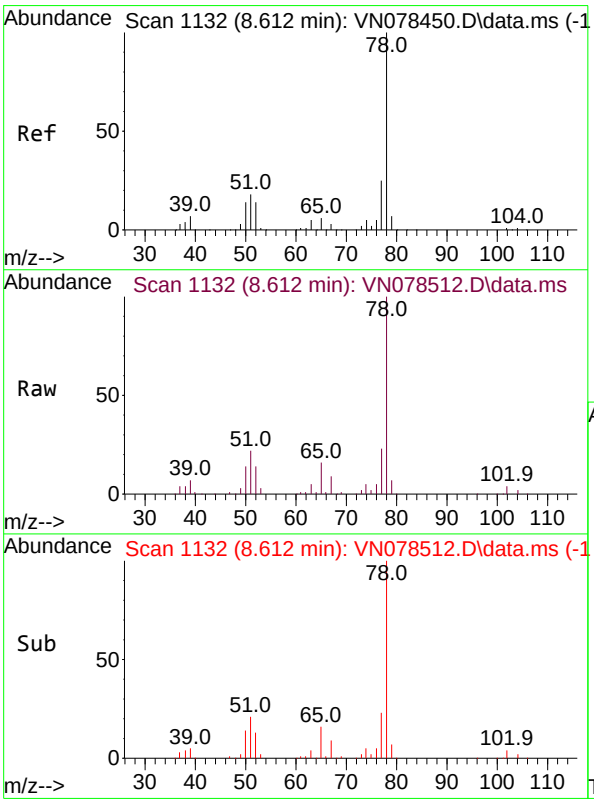
Ion	Ratio	Lower	Upper
83	100		
55	64.2	49.1	73.7
98	42.9	40.6	61.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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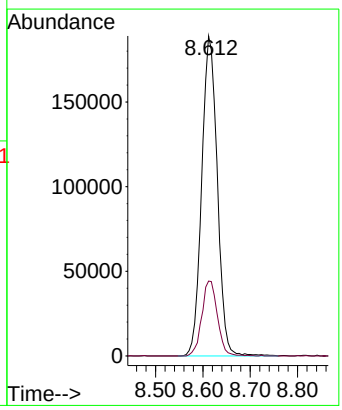
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

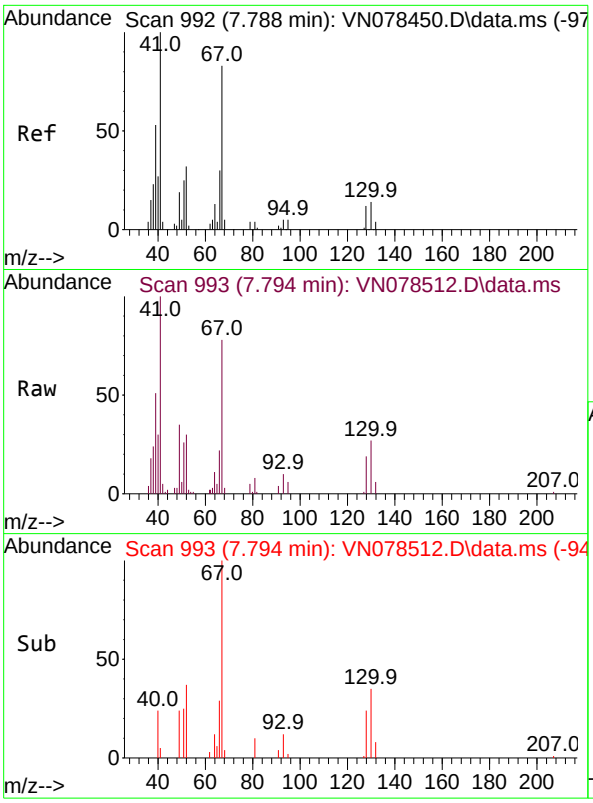


#40
Benzene
Concen: 20.612 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 78 Resp: 431917

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6

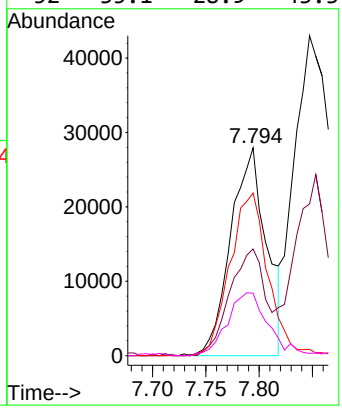




#41
Methacrylonitrile
Concen: 21.724 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 41 Resp: 6529

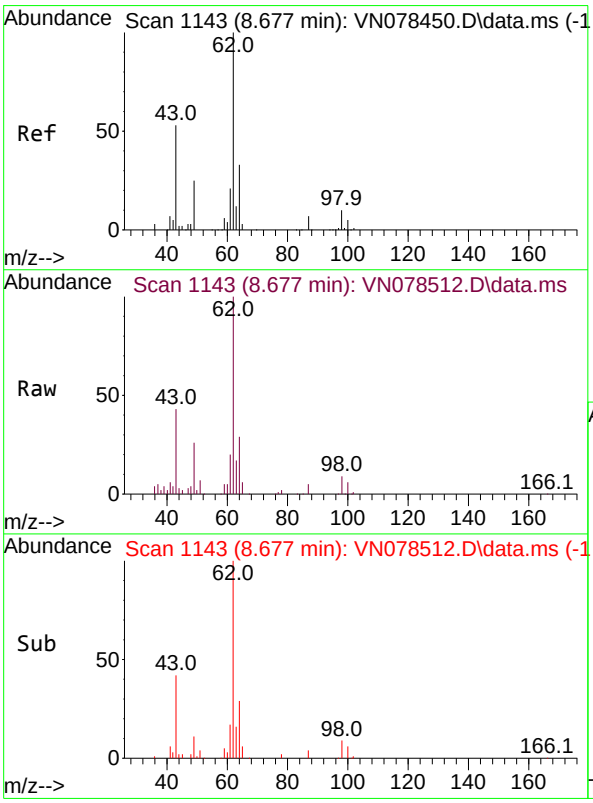
Ion	Ratio	Lower	Upper
41	100		
39	50.4	42.6	64.0
67	83.2	77.5	116.3
52	35.1	28.9	43.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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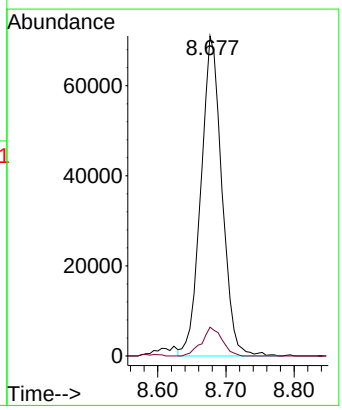
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

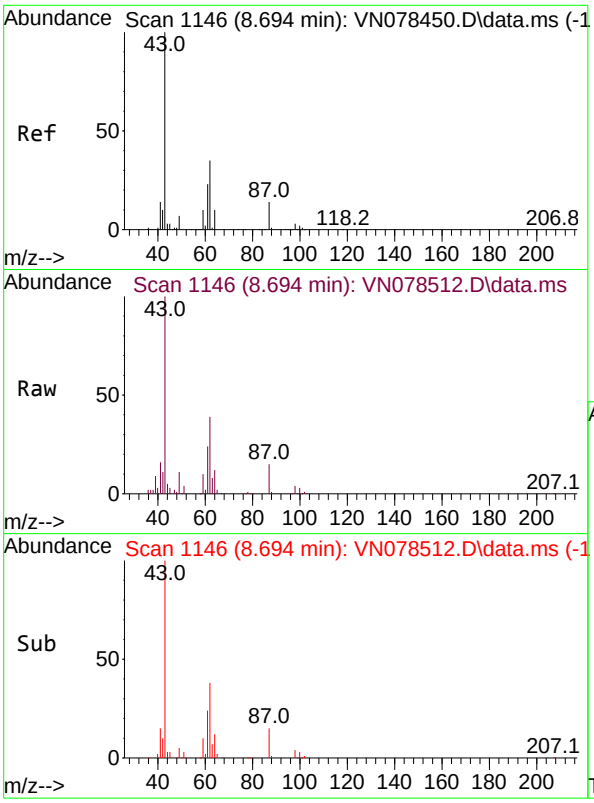


#42
1,2-Dichloroethane
Concen: 21.359 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 62 Resp: 152233

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	19.8





#43
Isopropyl Acetate
Concen: 21.422 ug/l
RT: 8.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

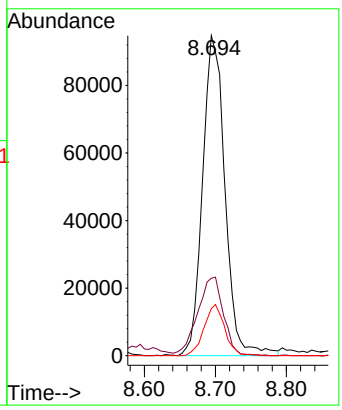
Tgt Ion: 43 Resp: 20795

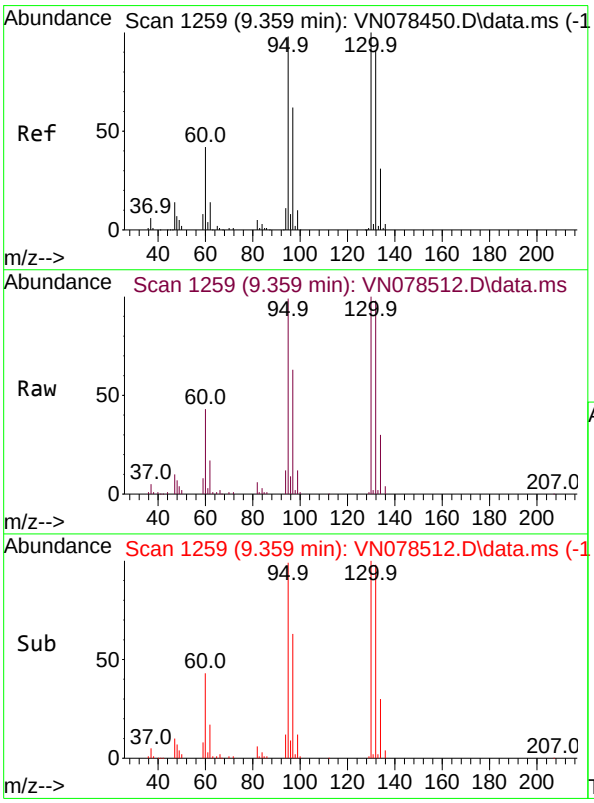
Ion	Ratio	Lower	Upper
43	100		
61	28.3	24.7	37.1
87	14.7	14.6	21.8

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

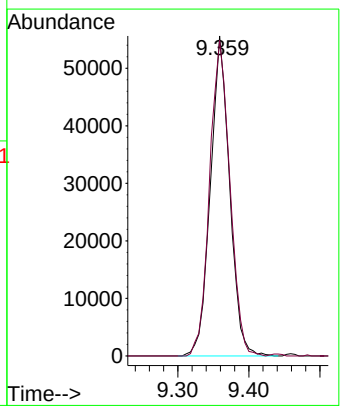


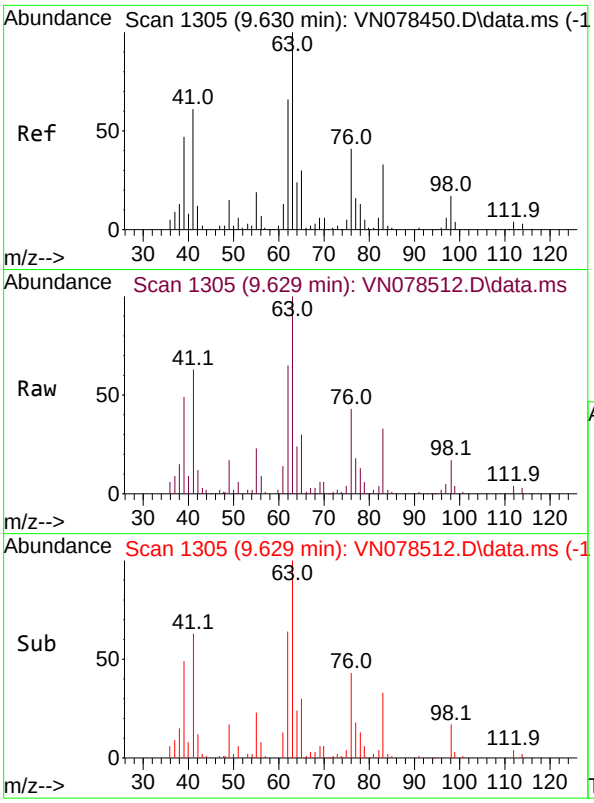


#44
Trichloroethene
Concen: 18.471 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:130 Resp: 104318

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	204.6





#45
1,2-Dichloropropane
Concen: 20.639 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

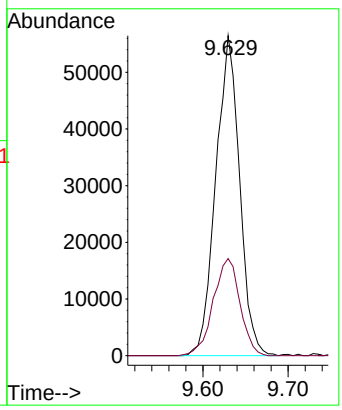
Tgt Ion: 63 Resp: 10953

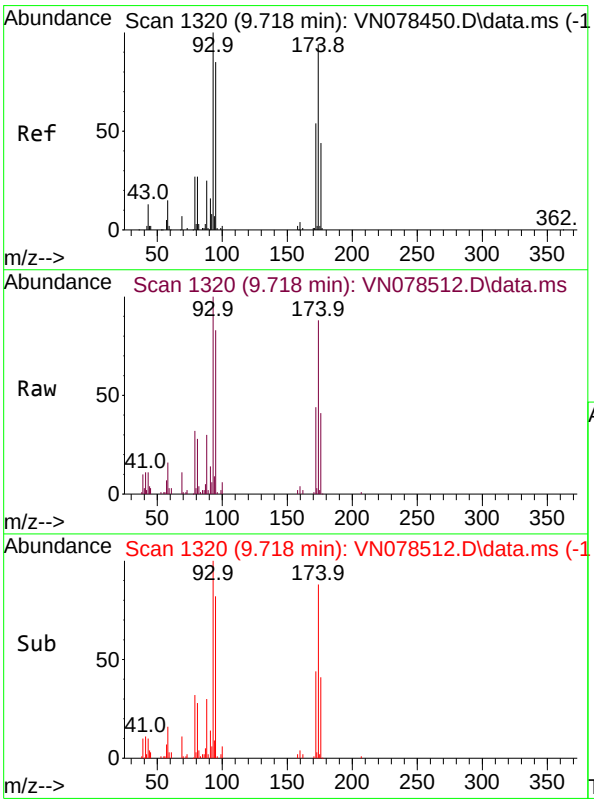
Ion	Ratio	Lower	Upper
63	100		
65	30.4	23.9	35.9

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

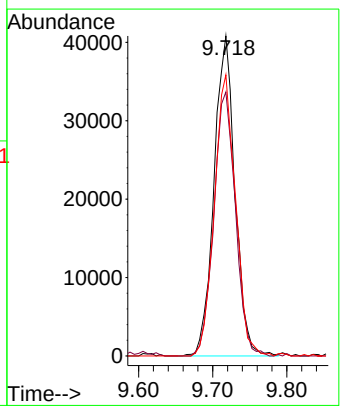


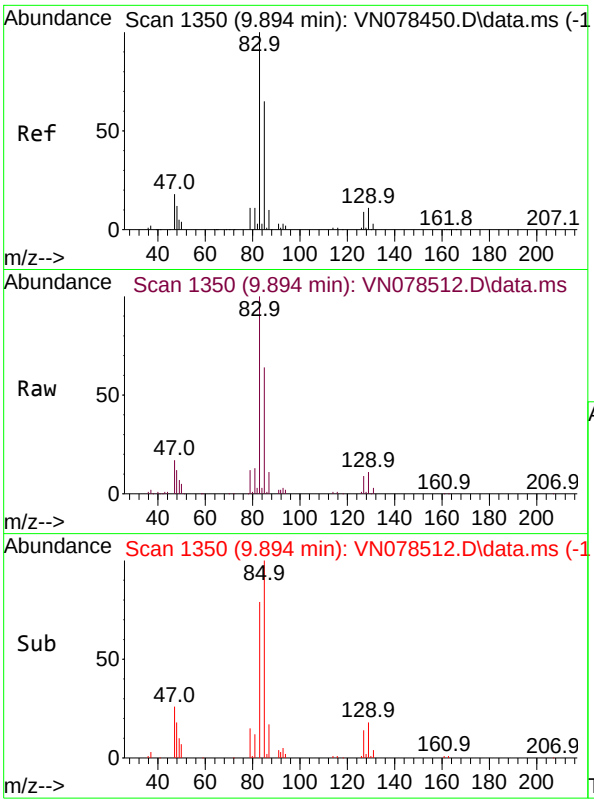


#46
Dibromomethane
Concen: 21.454 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 93 Resp: 80137

Ion	Ratio	Lower	Upper
93	100		
95	84.9	63.8	95.8
174	89.1	65.6	98.4

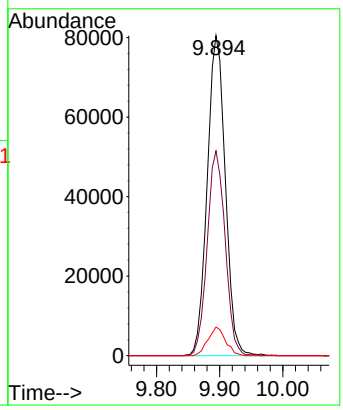




#47
Bromodichloromethane
Concen: 21.391 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 83 Resp: 16017

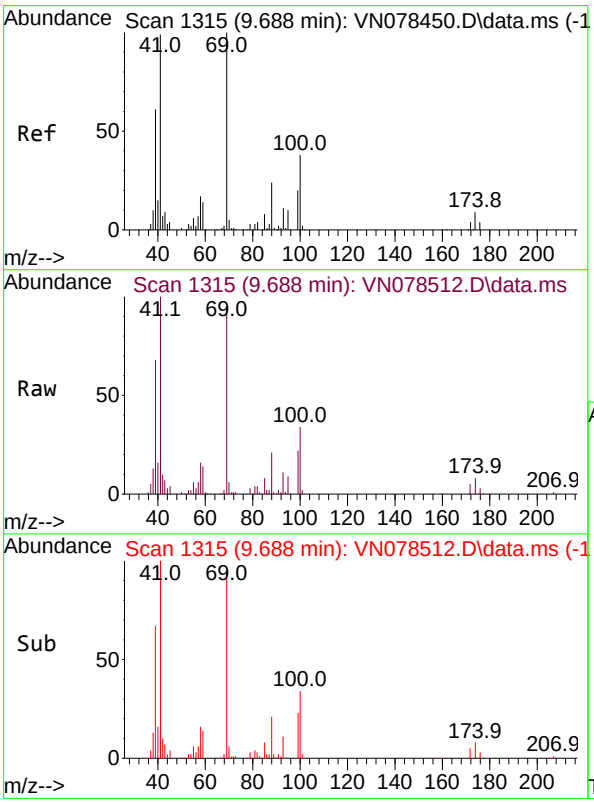
Ion	Ratio	Lower	Upper
83	100		
85	64.0	49.6	74.4
127	9.0	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

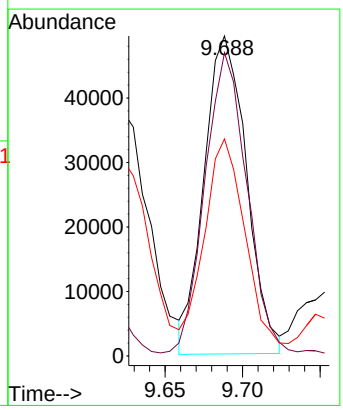
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

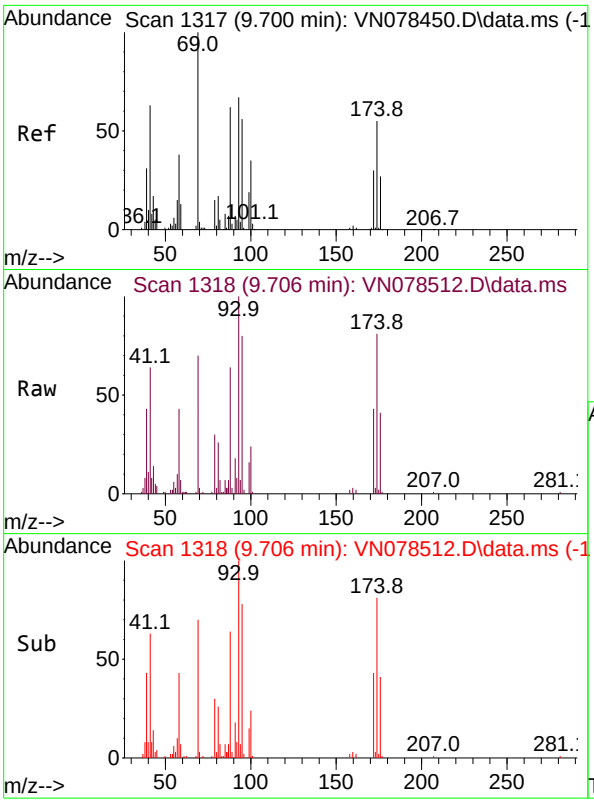


#48
Methyl methacrylate
Concen: 20.854 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 41 Resp: 93785

Ion	Ratio	Lower	Upper
41	100		
69	97.2	90.4	135.6
39	67.4	54.6	81.8





#49
1,4-Dioxane
Concen: 429.407 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

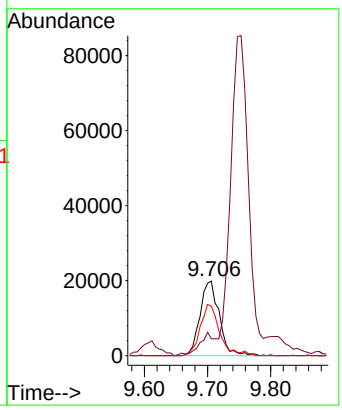
Tgt Ion: 88 Resp: 4211

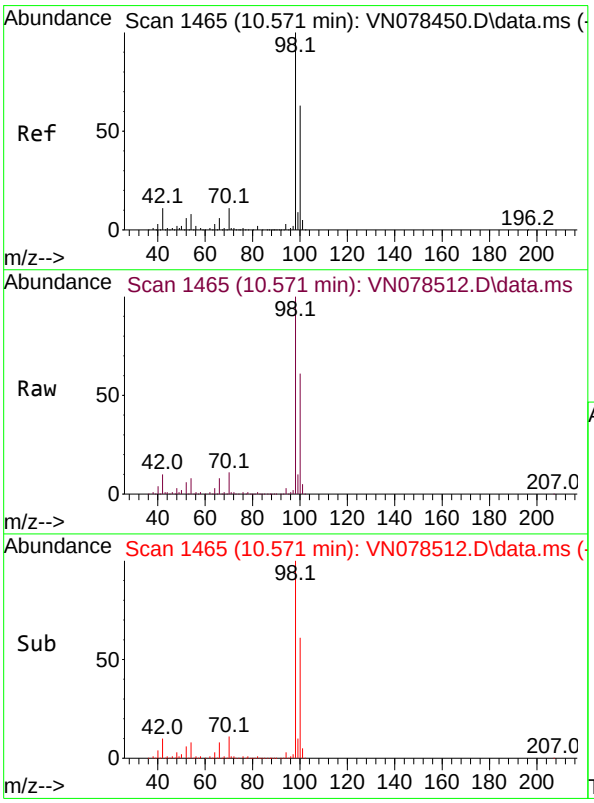
Ion	Ratio	Lower	Upper
88	100		
43	19.8	17.0	25.6
58	69.2	47.0	70.4

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

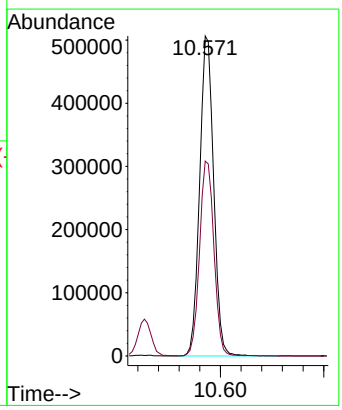


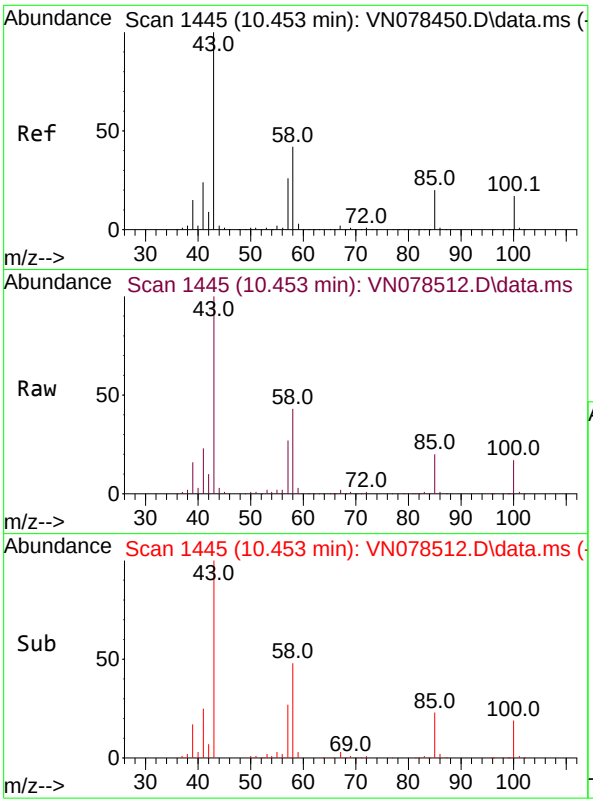


#50
Toluene-d8
Concen: 51.397 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 98 Resp: 951105

Ion	Ratio	Lower	Upper
98	100		
100	62.6	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 108.913 ug/l
RT: 10.453 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

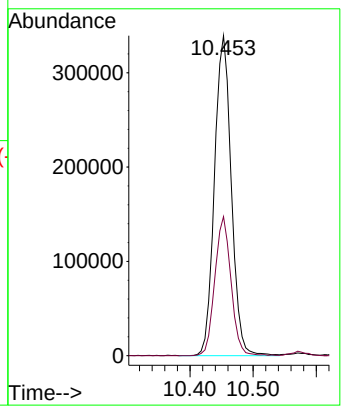
Tgt Ion: 43 Resp: 62886

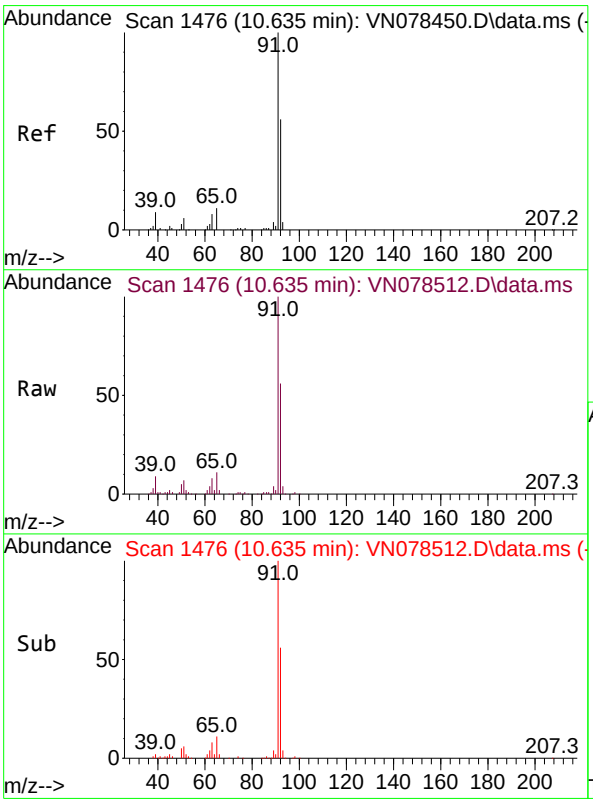
Ion	Ratio	Lower	Upper
43	100		
58	41.7	36.6	54.8

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

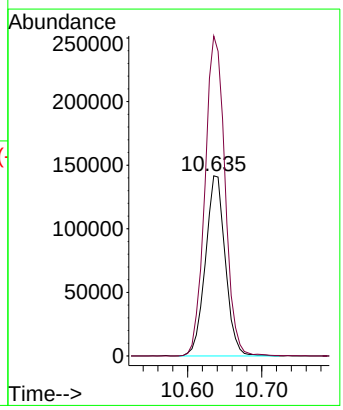


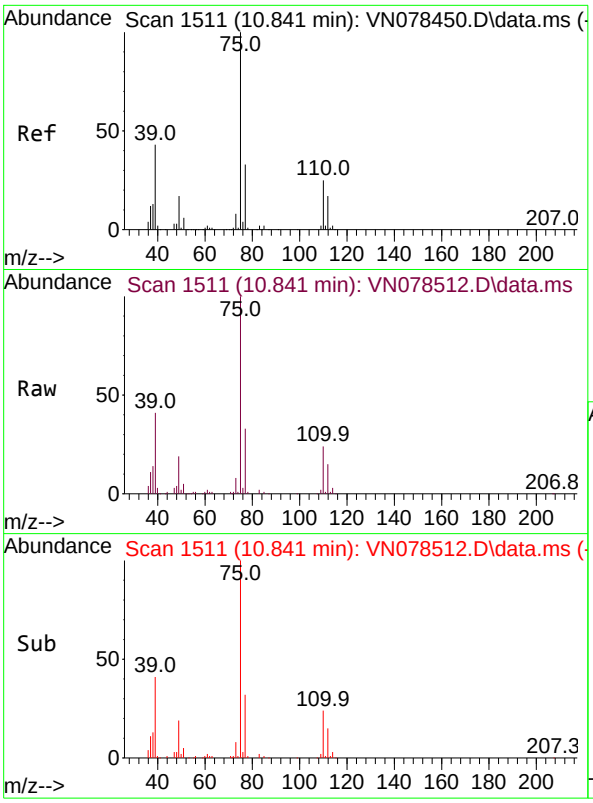


#52
Toluene
Concen: 20.285 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 92 Resp: 263446

Ion	Ratio	Lower	Upper
92	100		
91	179.3	137.4	206.0

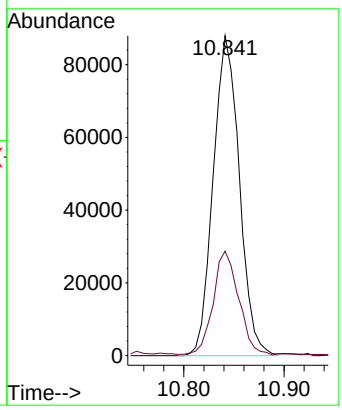




#53
t-1,3-Dichloropropene
Concen: 20.685 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 75 Resp: 15867

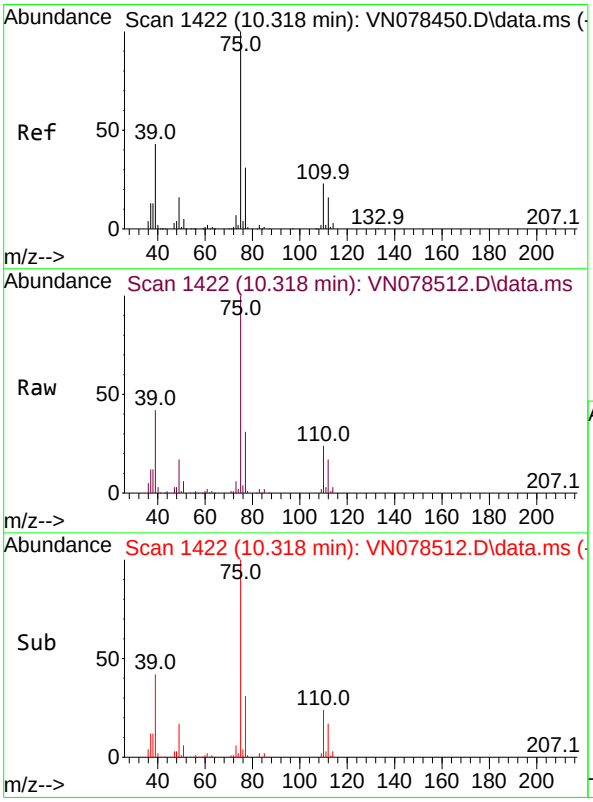
Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.4	38.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

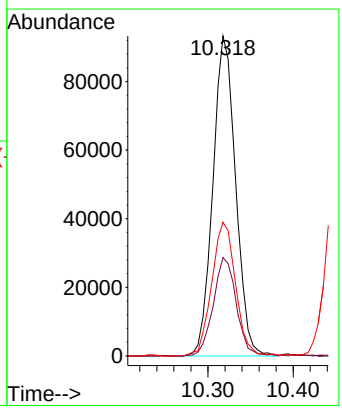
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

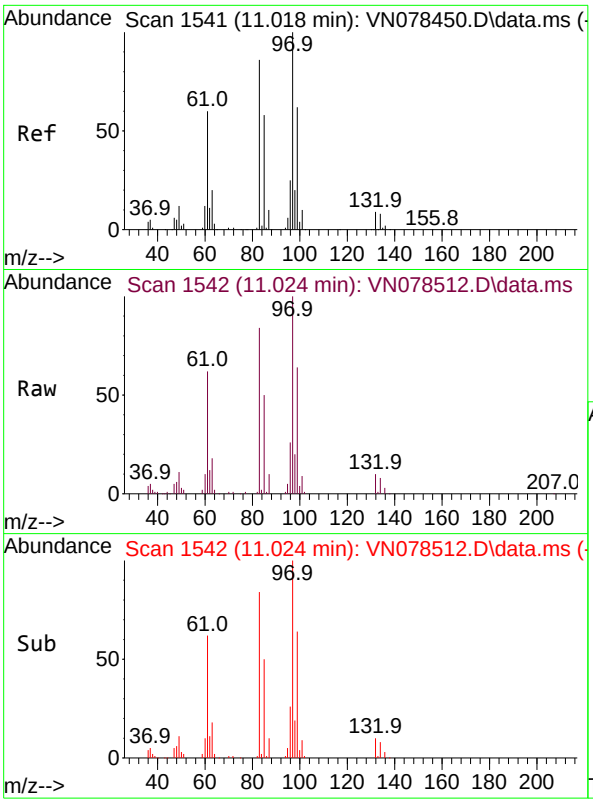


#54
cis-1,3-Dichloropropene
Concen: 21.112 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 75 Resp: 172625

Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.1	39.1
39	41.5	31.6	47.4

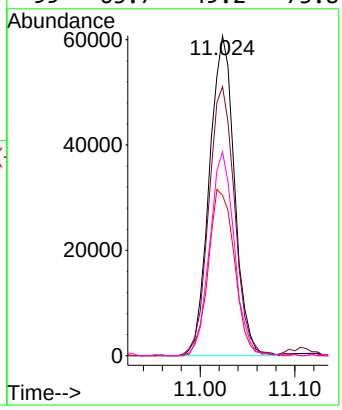




#55
1,1,2-Trichloroethane
Concen: 21.906 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 97 Resp: 11208

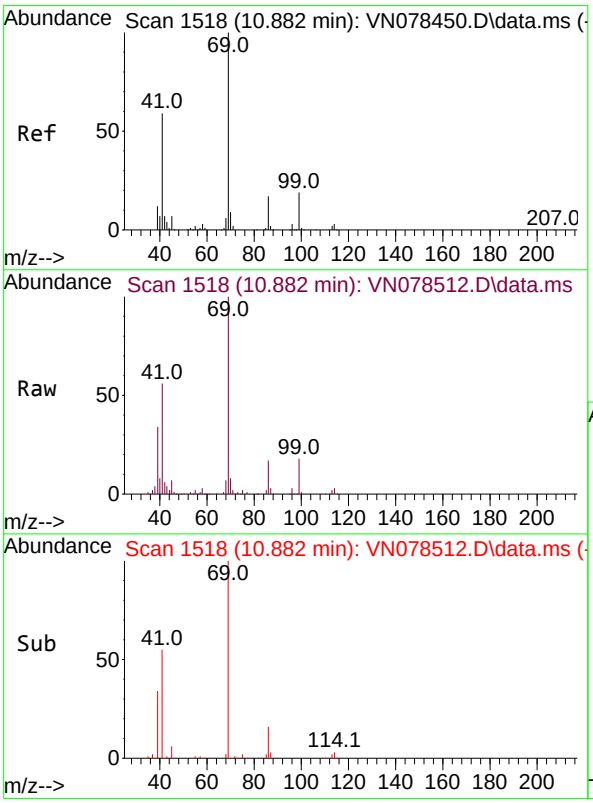
Ion	Ratio	Lower	Upper
97	100		
83	84.1	65.1	97.7
85	50.1	43.4	65.2
99	63.7	49.2	73.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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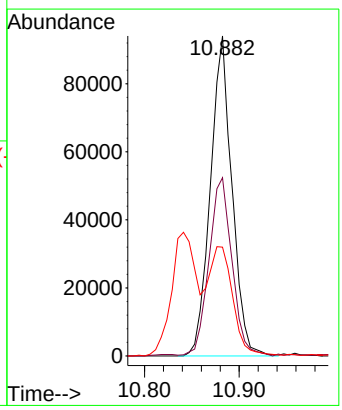
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

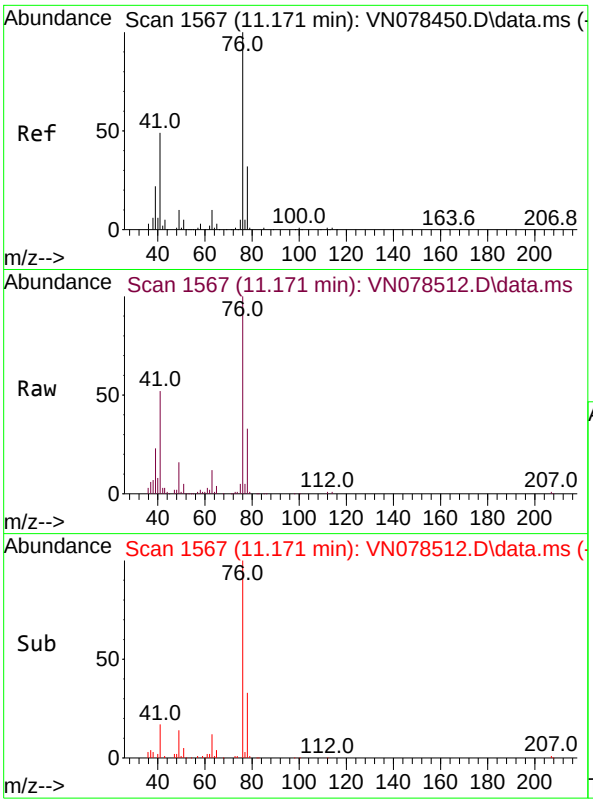


#56
Ethyl methacrylate
Concen: 20.843 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 69 Resp: 149082

Ion	Ratio	Lower	Upper
69	100		
41	59.3	39.6	59.4
39	39.0	28.6	43.0

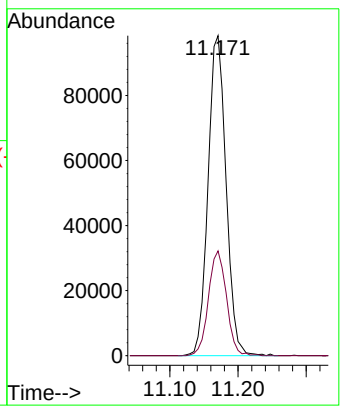




#57
1,3-Dichloropropane
Concen: 20.771 ug/l
RT: 11.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 76 Resp: 18071

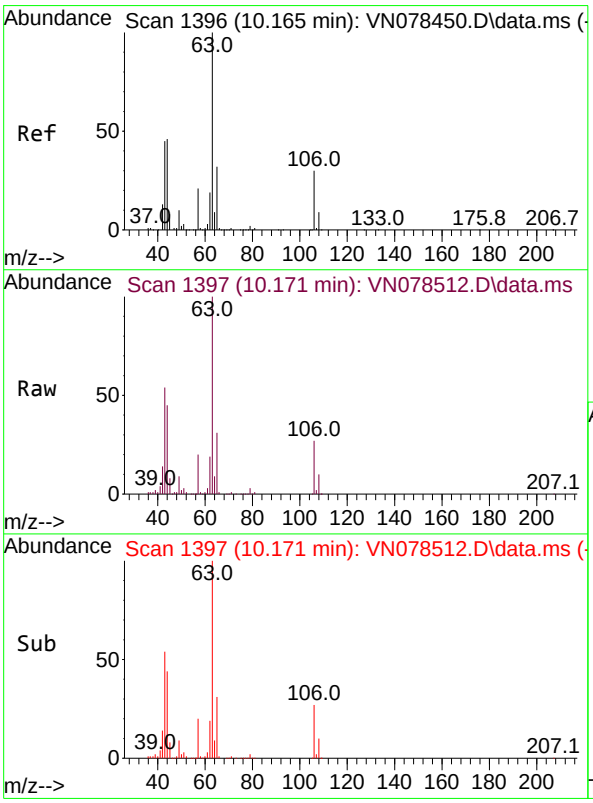
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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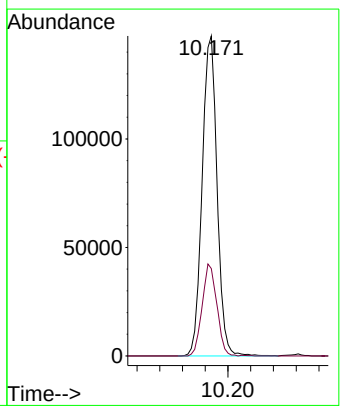
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

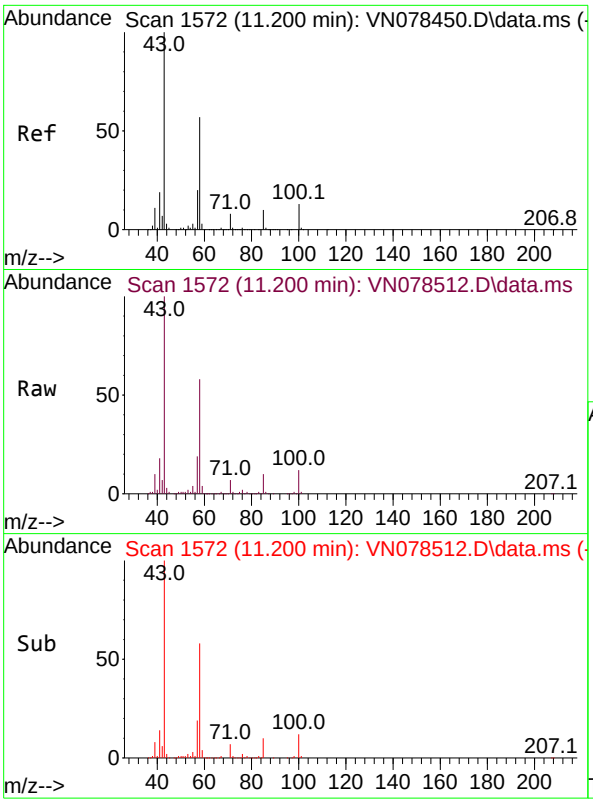


#58
2-Chloroethyl Vinyl ether
Concen: 105.133 ug/l
RT: 10.171 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 63 Resp: 267987

Ion	Ratio	Lower	Upper
63	100		
106	28.2	26.2	39.4





#59
2-Hexanone
Concen: 108.172 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

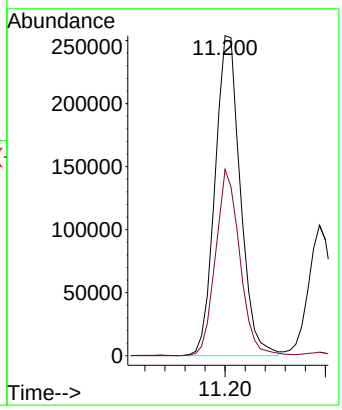
Tgt Ion: 43 Resp: 44390

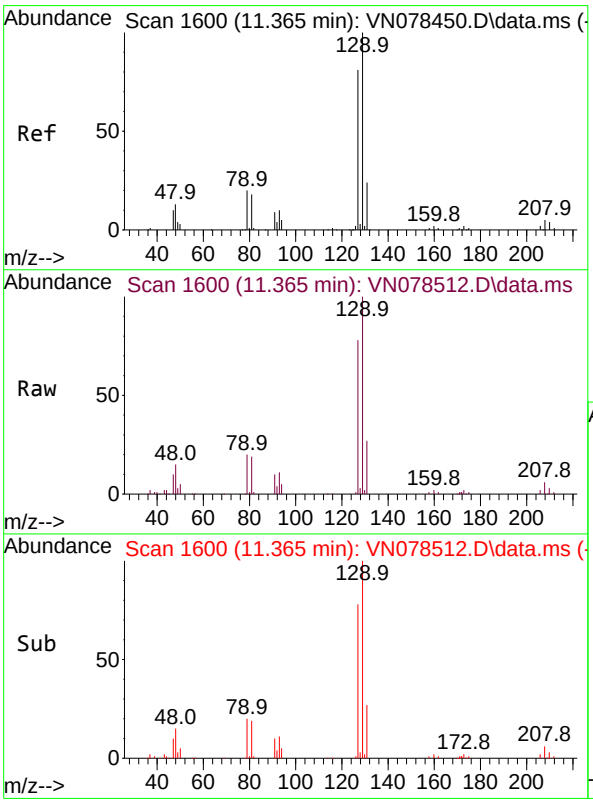
Ion	Ratio	Lower	Upper
43	100		
58	55.9	31.7	95.1

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

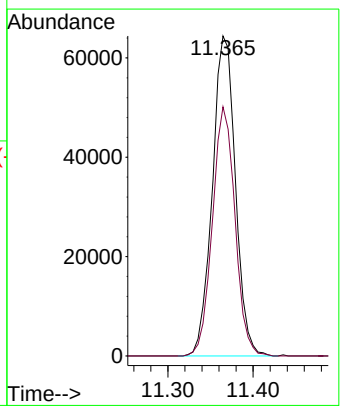


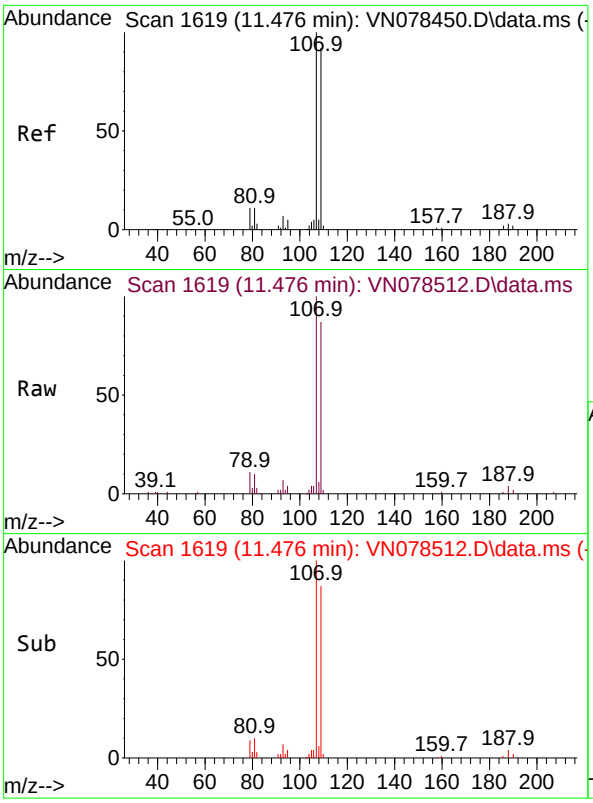


#60
Dibromochloromethane
Concen: 21.454 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:129 Resp: 121190

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	116.0

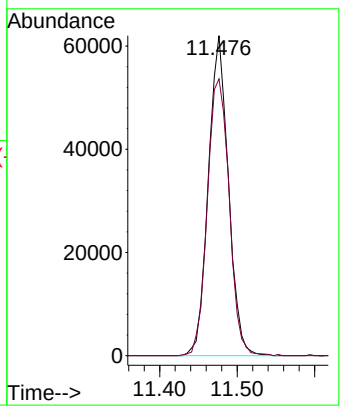




#61
1,2-Dibromoethane
Concen: 21.137 ug/l
RT: 11.476 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:107 Resp: 11141

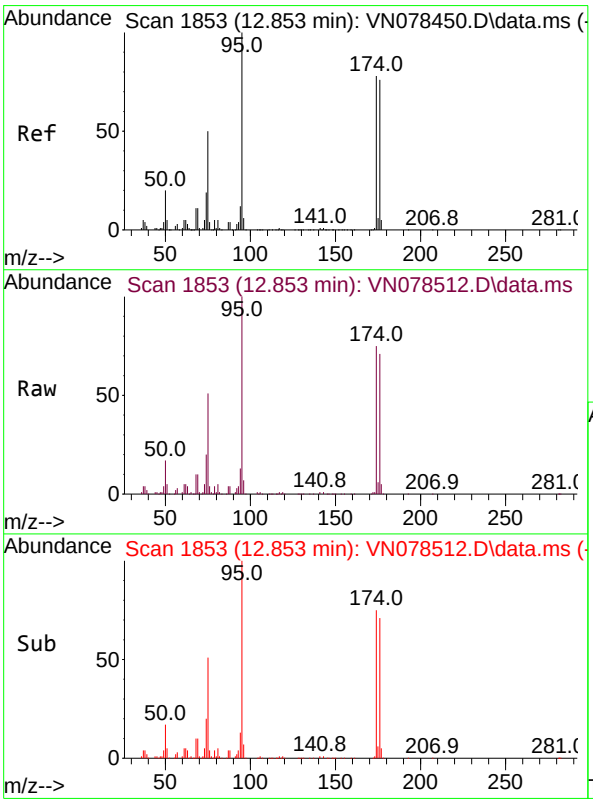
Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.6	114.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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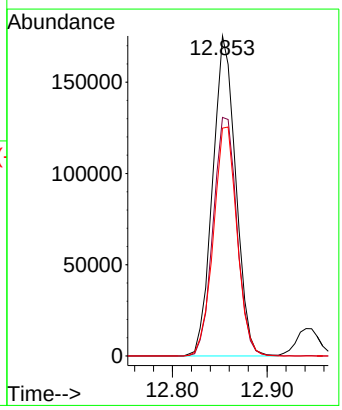
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

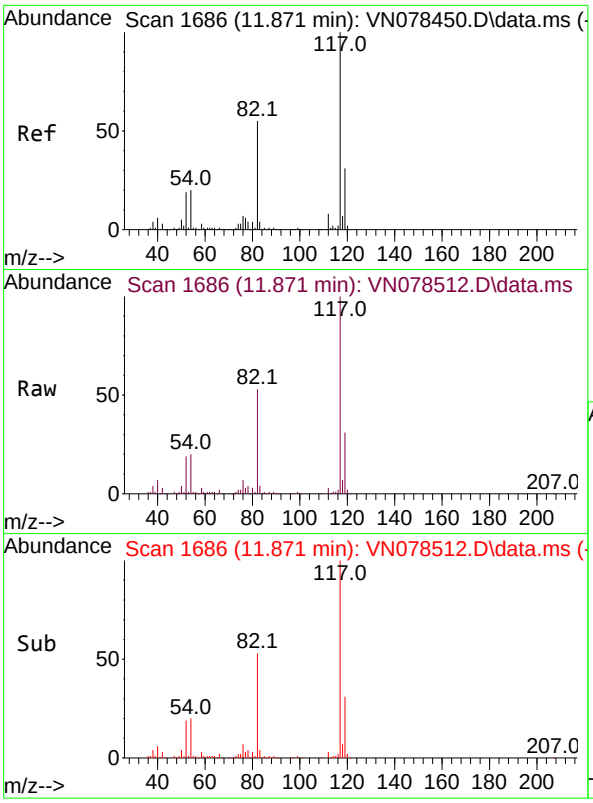


#62
4-Bromofluorobenzene
Concen: 52.127 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 95 Resp: 297122

Ion	Ratio	Lower	Upper
95	100		
174	76.7	0.0	143.8
176	73.0	0.0	135.8

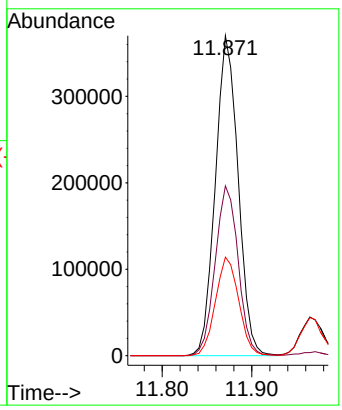




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:117 Resp: 65244

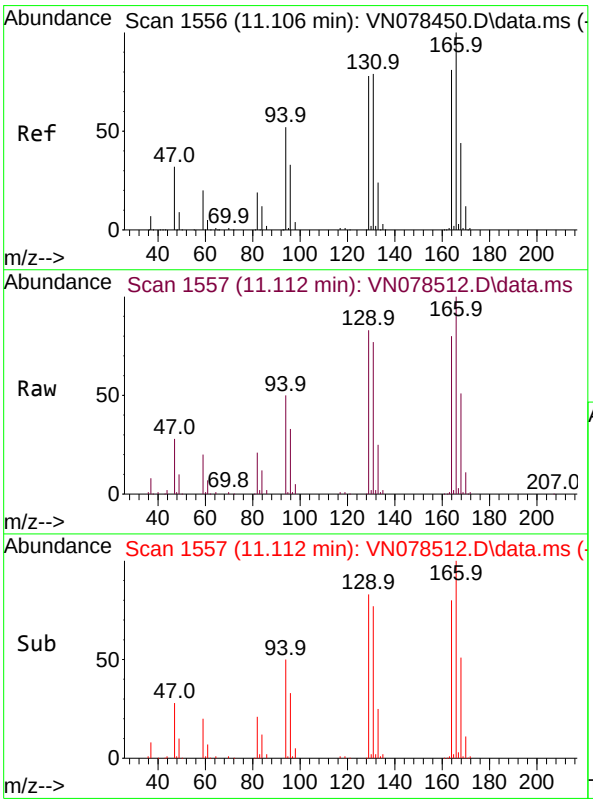
Ion	Ratio	Lower	Upper
117	100		
82	53.1	44.0	66.0
119	30.8	25.6	38.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

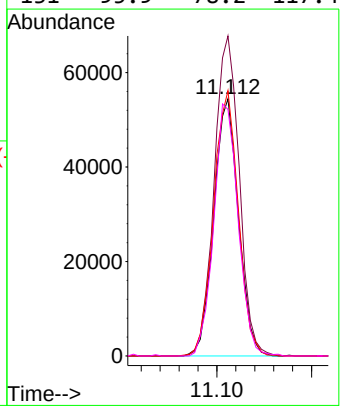
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

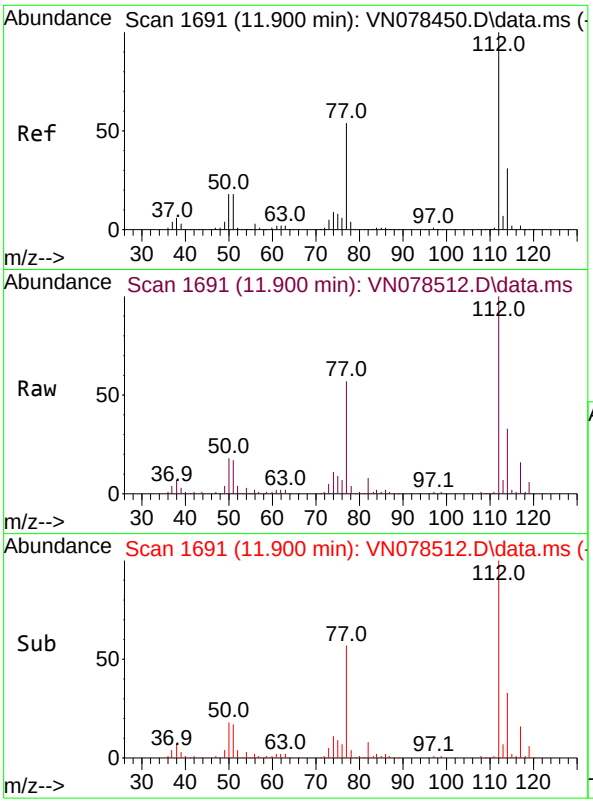


#64
Tetrachloroethene
Concen: 20.074 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:164 Resp: 98466

Ion	Ratio	Lower	Upper
164	100		
166	124.5	101.4	152.0
129	103.2	82.4	123.6
131	95.9	78.2	117.4

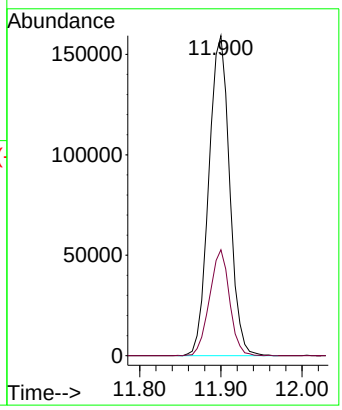




#65
Chlorobenzene
Concen: 19.400 ug/l
RT: 11.900 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:112 Resp: 28292

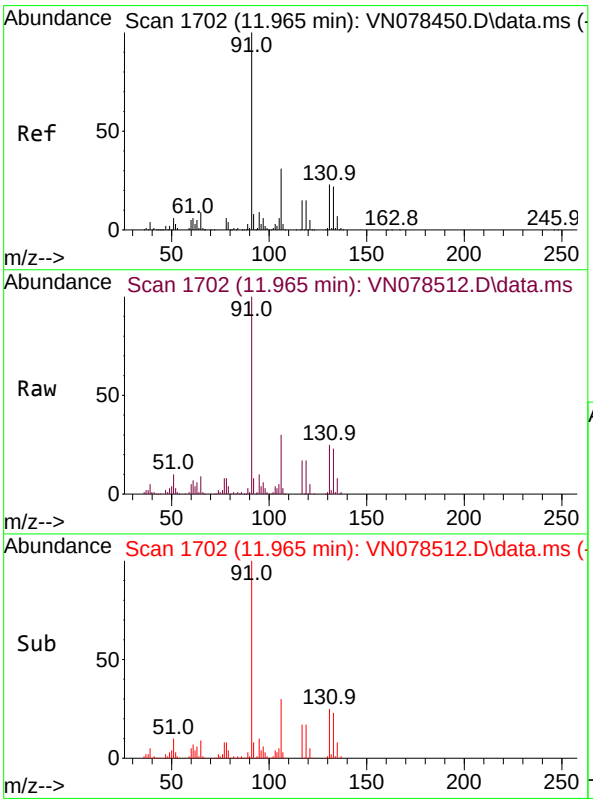
Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

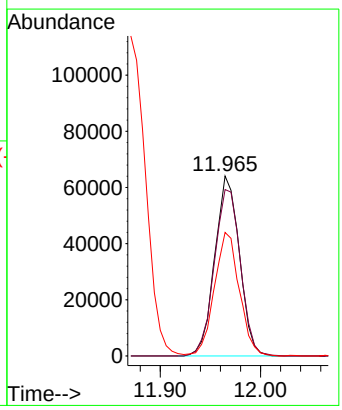
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

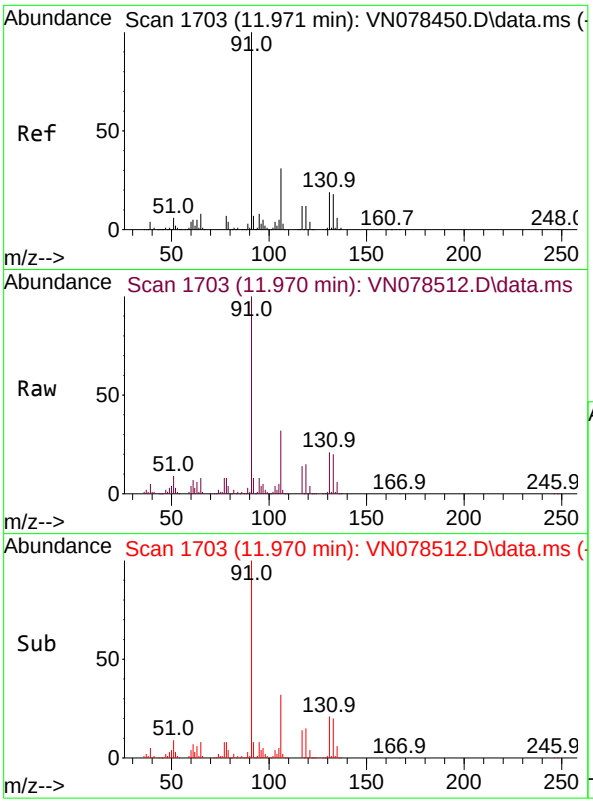


#66
1,1,1,2-Tetrachloroethane
Concen: 19.477 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:131 Resp: 109272

Ion	Ratio	Lower	Upper
131	100		
133	98.2	46.4	139.1
119	69.7	34.1	102.2





#67
Ethyl Benzene
Concen: 19.773 ug/l
RT: 11.970 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

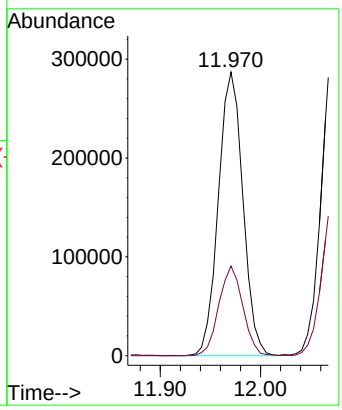
Tgt Ion: 91 Resp: 48743

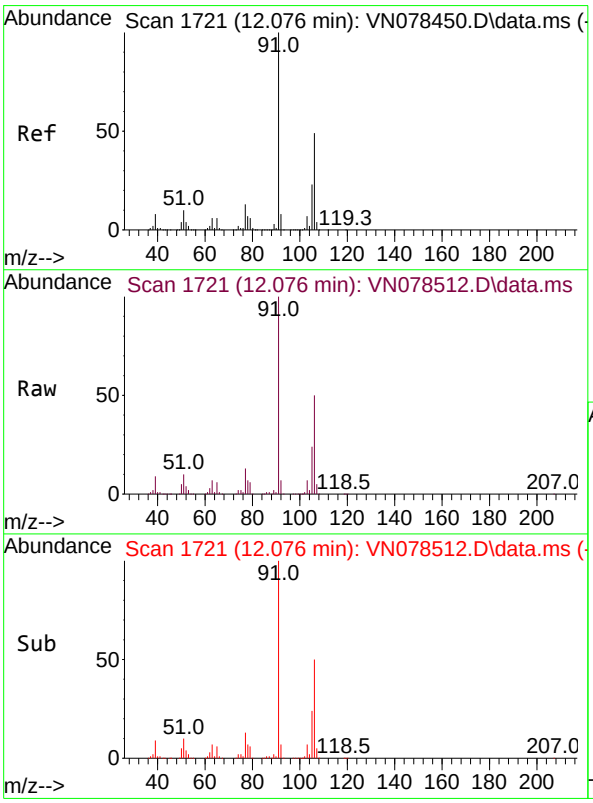
Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.6	38.4

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

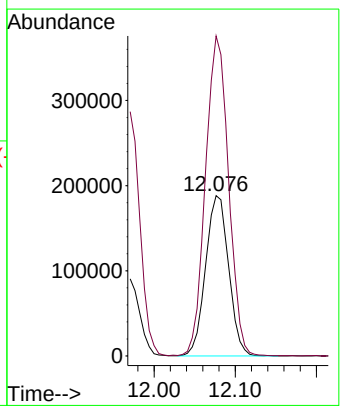


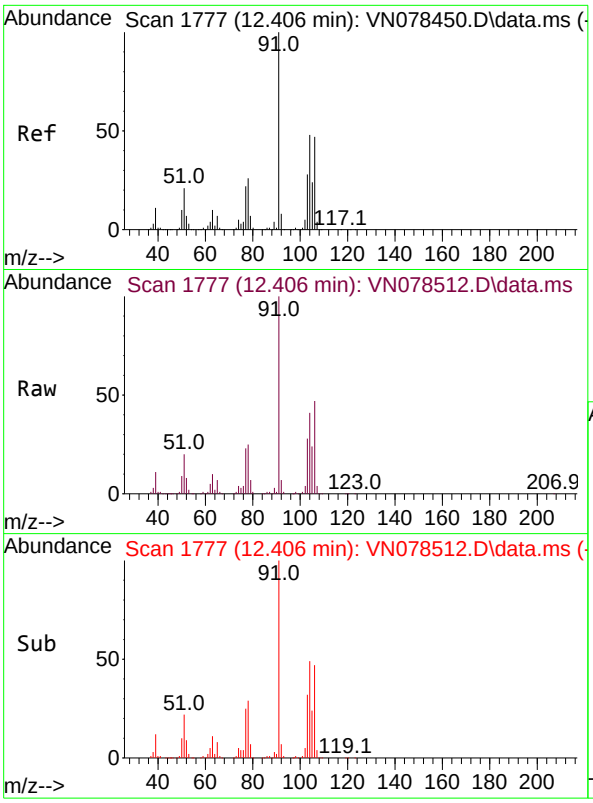


#68
m/p-Xylenes
Concen: 40.762 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:106 Resp: 371521

Ion	Ratio	Lower	Upper
106	100		
91	199.7	159.6	239.4





#69
o-Xylene
Concen: 19.558 ug/l
RT: 12.406 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

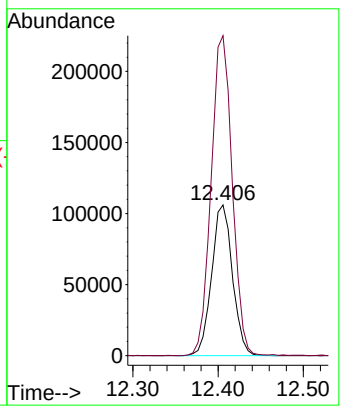
Tgt Ion:106 Resp: 18004

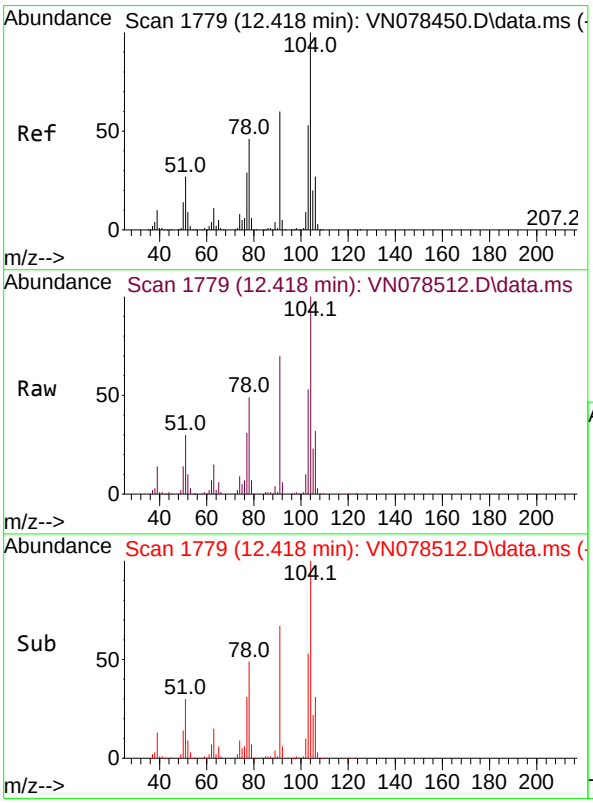
Ion	Ratio	Lower	Upper
106	100		
91	214.8	105.2	315.5

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

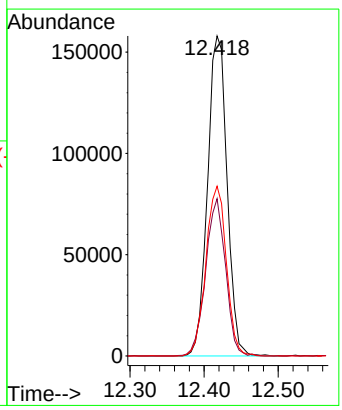


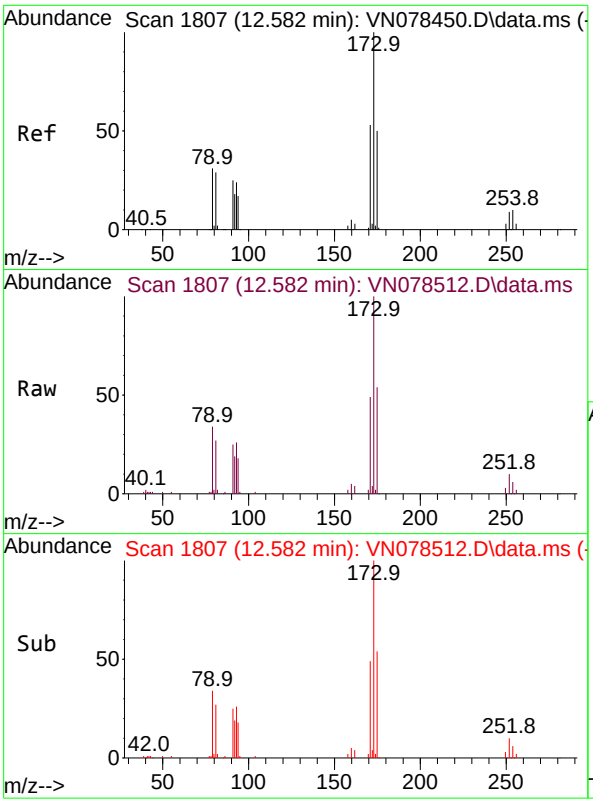


#70
Styrene
Concen: 20.085 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:104 Resp: 289268

Ion	Ratio	Lower	Upper
104	100		
78	50.1	39.5	59.3
103	55.7	43.2	64.8

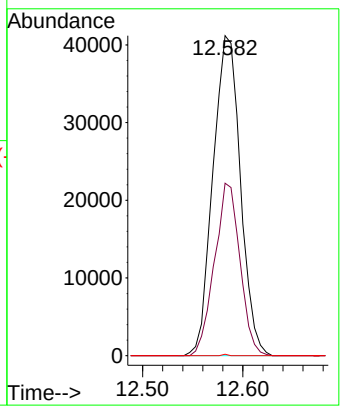




#71
Bromoform
Concen: 20.551 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:173 Resp: 7808

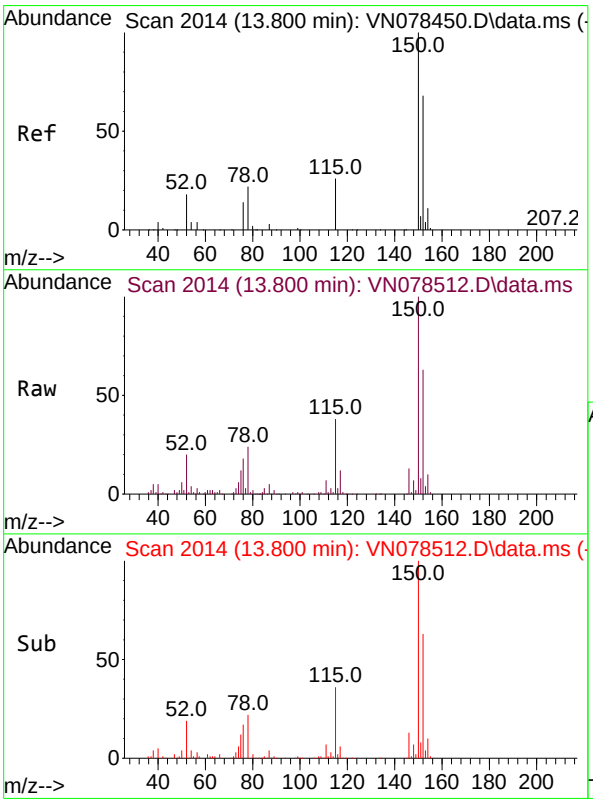
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.3	73.0
254	0.1	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

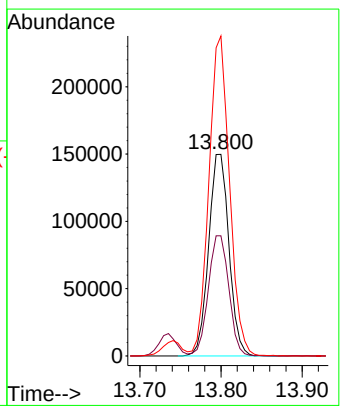
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

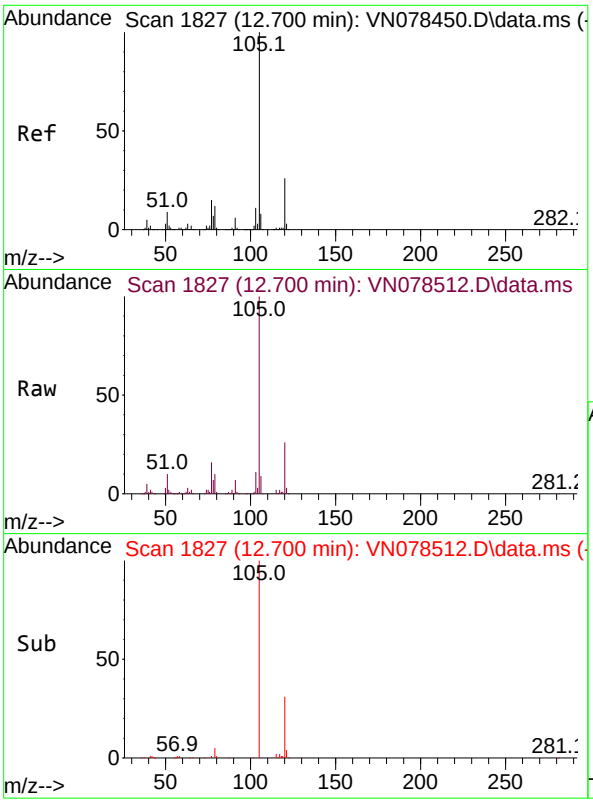


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:152 Resp: 260094

Ion	Ratio	Lower	Upper
152	100		
115	60.3	32.3	96.8
150	161.0	0.0	355.8

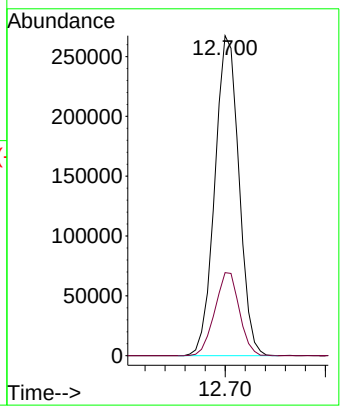




#73
Isopropylbenzene
Concen: 18.258 ug/l
RT: 12.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:105 Resp: 44622

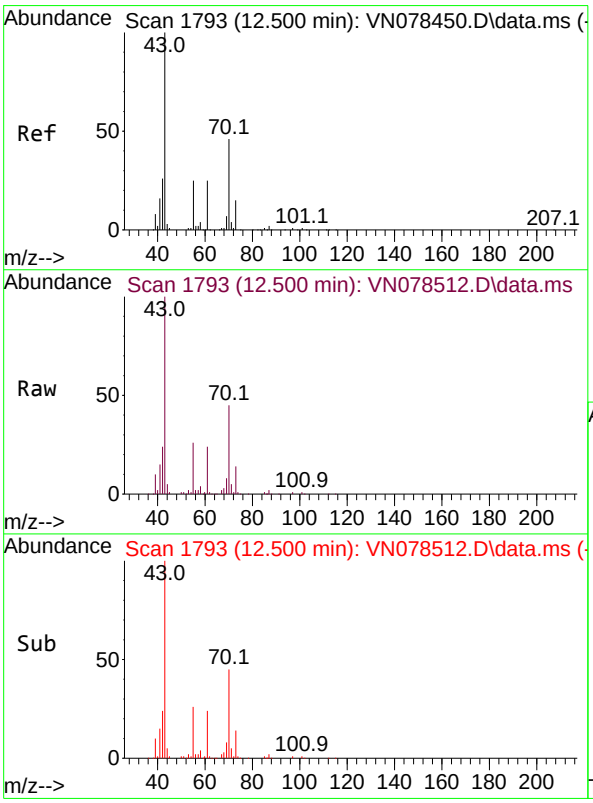
Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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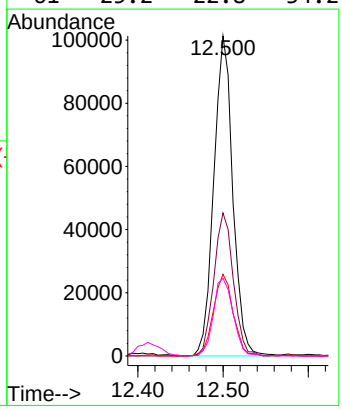
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

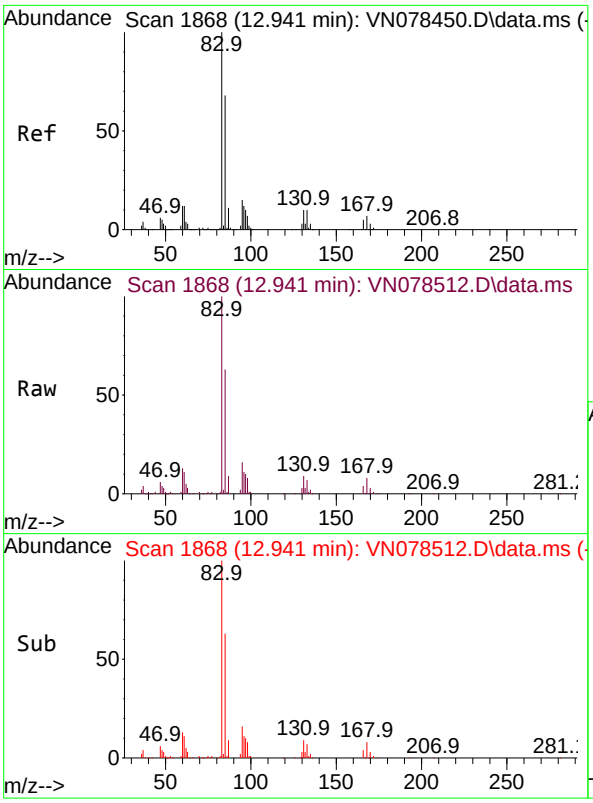


#74
N-amyl acetate
Concen: 18.628 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 43 Resp: 156894

Ion	Ratio	Lower	Upper
43	100		
70	45.9	43.4	65.2
55	26.7	21.4	32.0
61	25.2	22.8	34.2





#75
1,1,2,2-Tetrachloroethane
Concen: 21.232 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

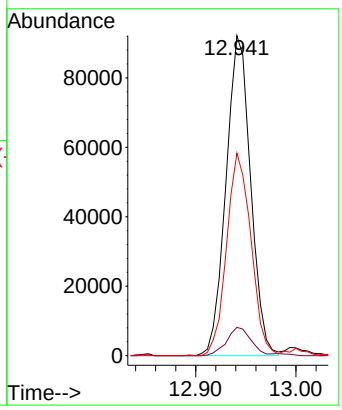
Tgt Ion: 83 Resp: 15709

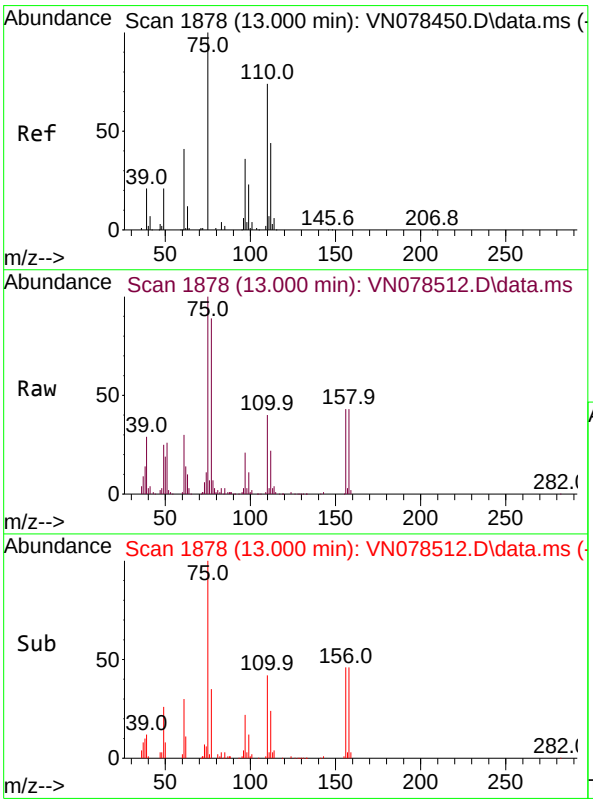
Ion	Ratio	Lower	Upper
83	100		
131	8.9	5.0	15.0
85	62.7	31.9	95.7

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

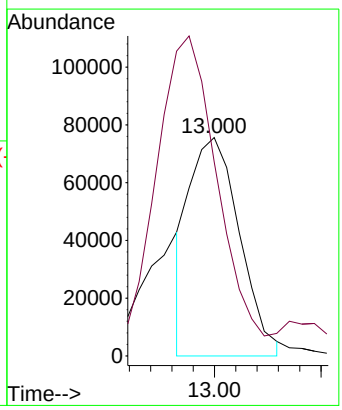


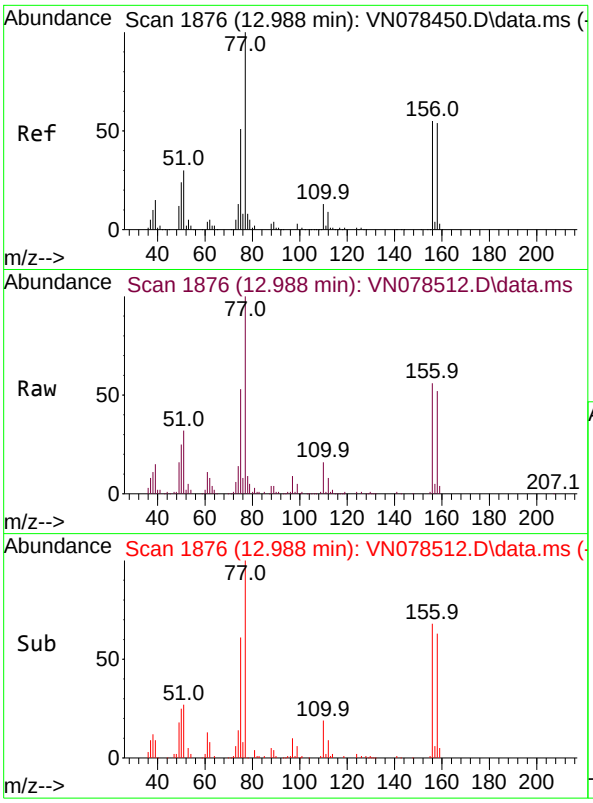


#76
1,2,3-Trichloropropane
Concen: 19.670 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 75 Resp: 123664

Ion	Ratio	Lower	Upper
75	100		
77	182.8	84.5	253.5

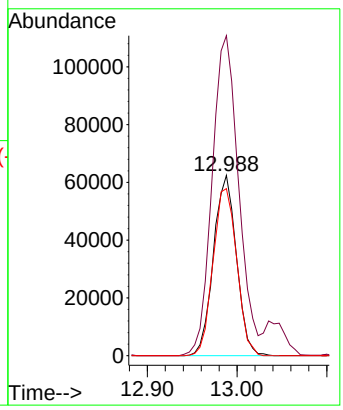




#77
Bromobenzene
Concen: 19.932 ug/l
RT: 12.988 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:156 Resp: 11087

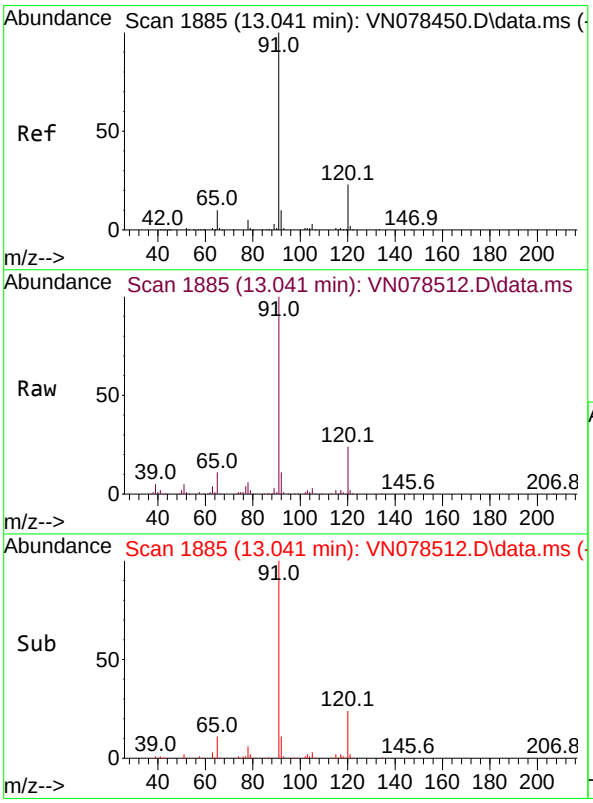
Ion	Ratio	Lower	Upper
156	100		
77	203.9	107.7	323.3
158	95.7	48.4	145.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

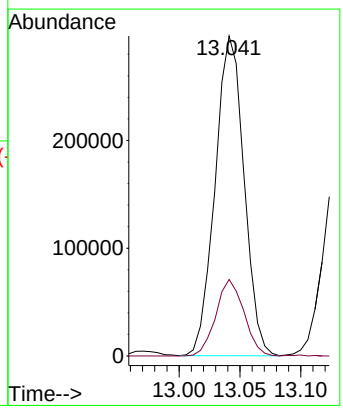
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

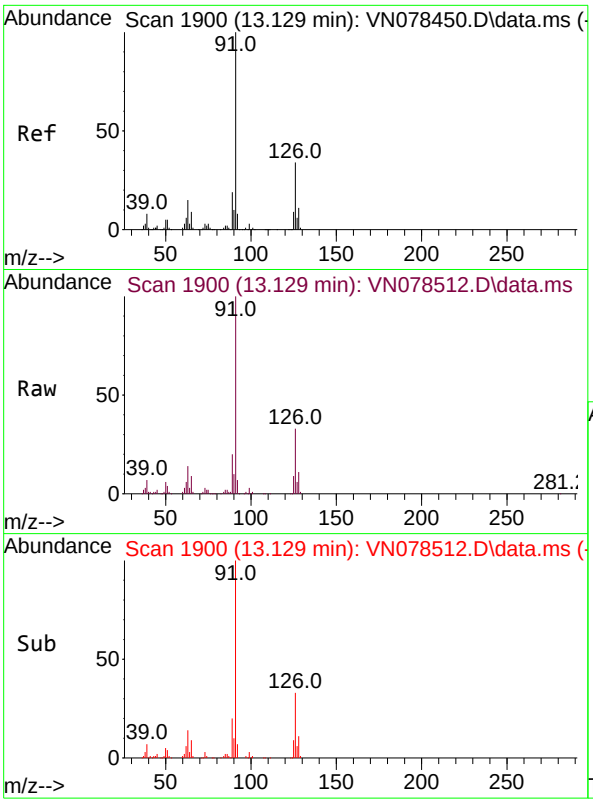


#78
n-propylbenzene
Concen: 18.775 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 91 Resp: 490728

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.4

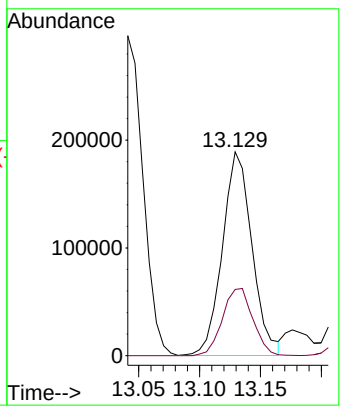




#79
2-Chlorotoluene
Concen: 18.732 ug/l
RT: 13.129 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 91 Resp: 32069

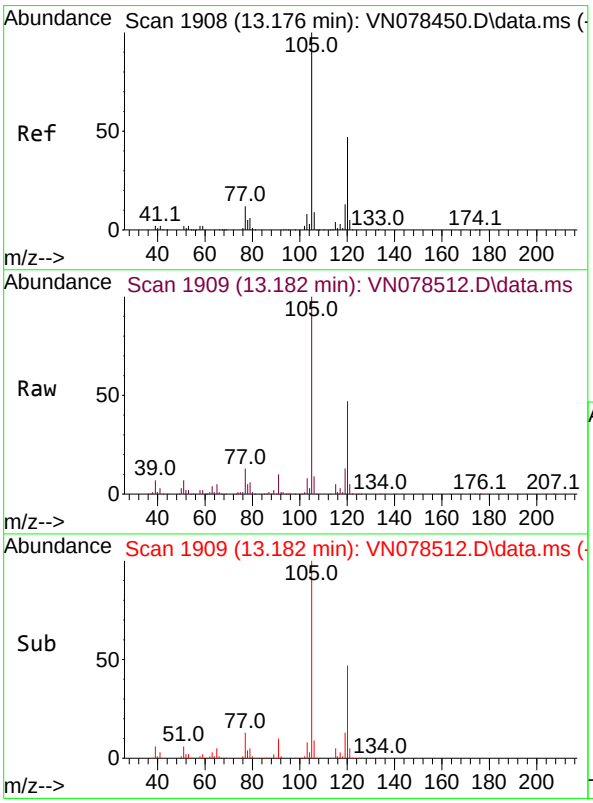
Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.3	48.8



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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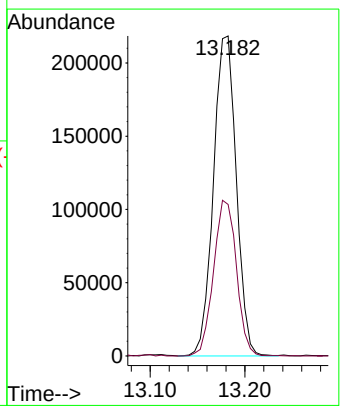
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

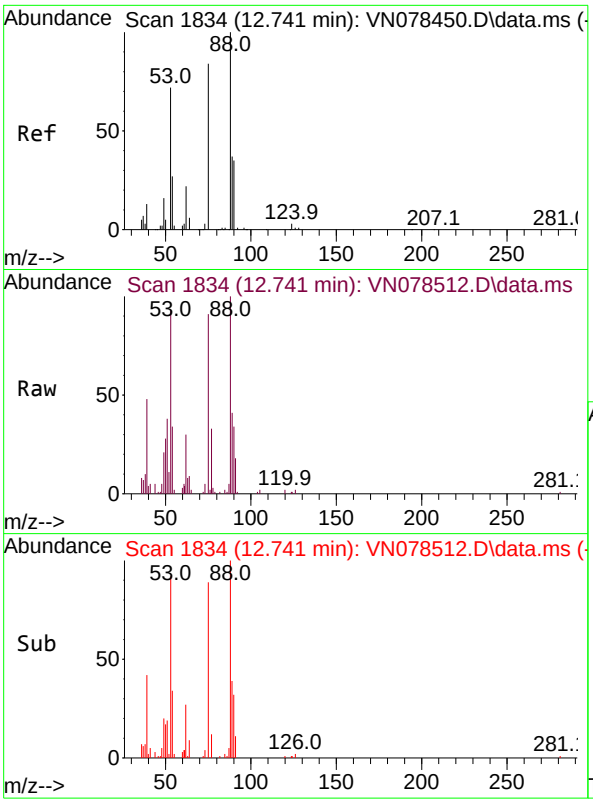


#80
1,3,5-Trimethylbenzene
Concen: 18.970 ug/l
RT: 13.182 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:105 Resp: 366315

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.1	72.3





#81
trans-1,4-Dichloro-2-butene
Concen: 17.472 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

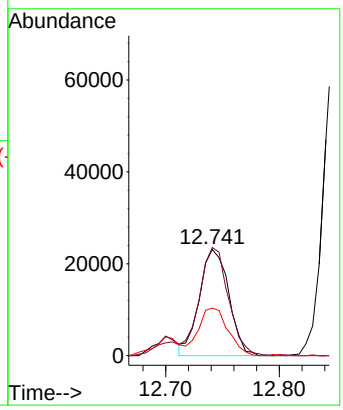
Tgt Ion: 75 Resp: 4179

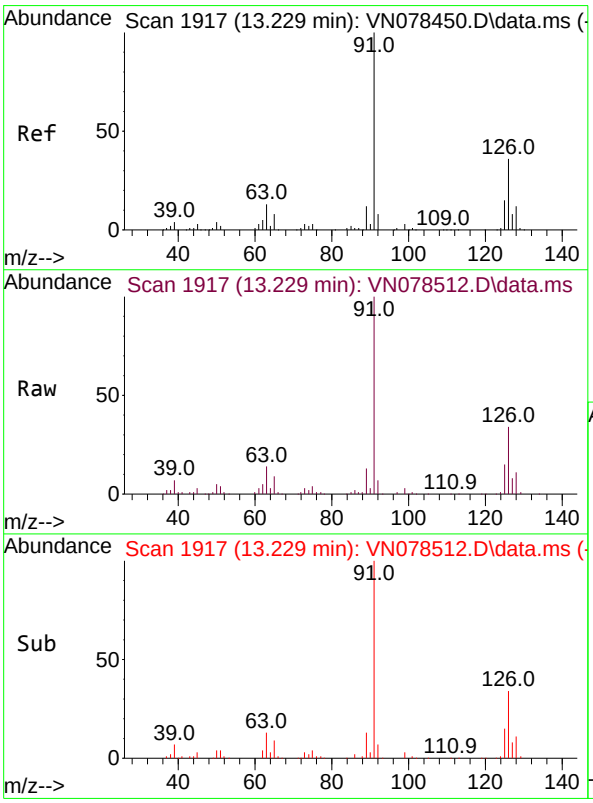
Ion	Ratio	Lower	Upper
75	100		
53	111.4	67.4	101.2
89	44.4	38.8	58.2

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

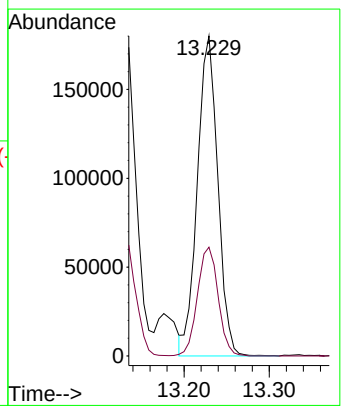


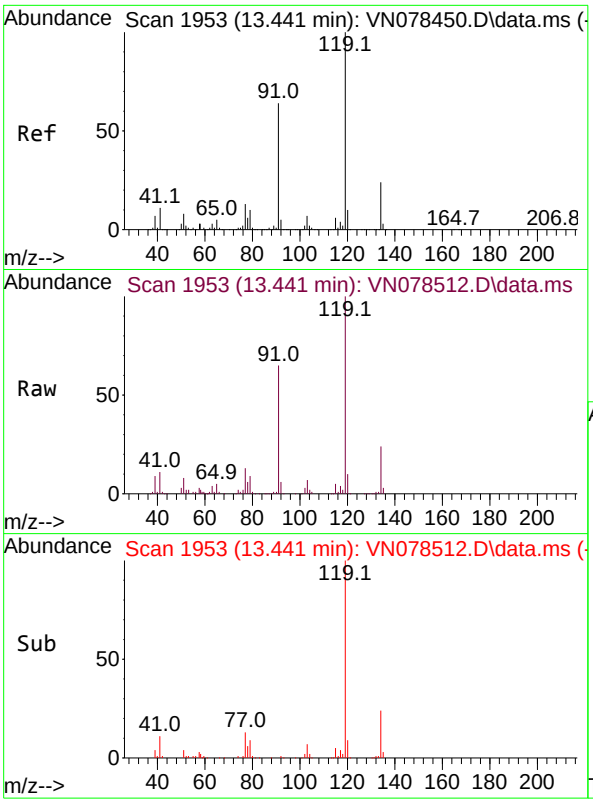


#82
4-Chlorotoluene
Concen: 18.802 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 91 Resp: 300285

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.0

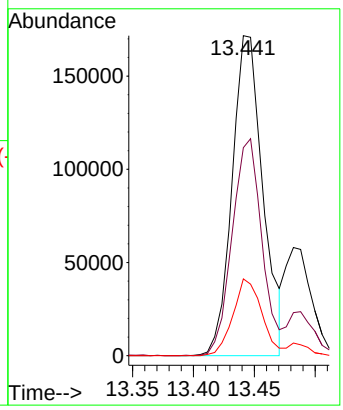




#83
tert-Butylbenzene
Concen: 18.461 ug/l
RT: 13.441 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:119 Resp: 30266

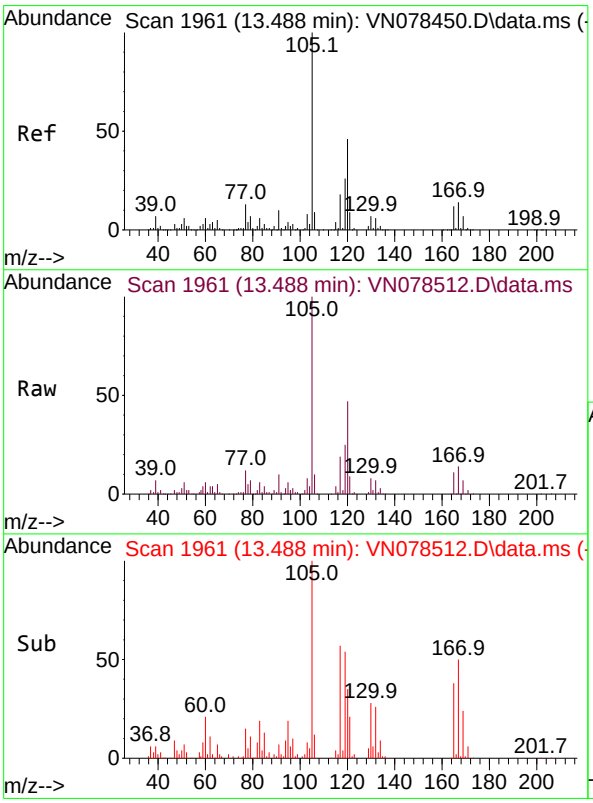
Ion	Ratio	Lower	Upper
119	100		
91	65.5	33.9	101.7
134	22.8	13.2	39.6



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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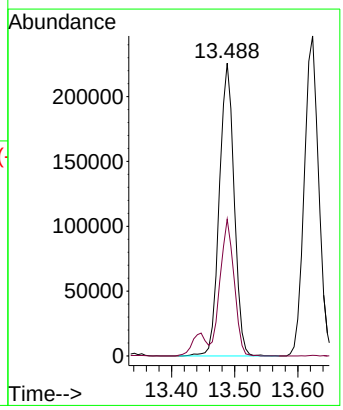
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

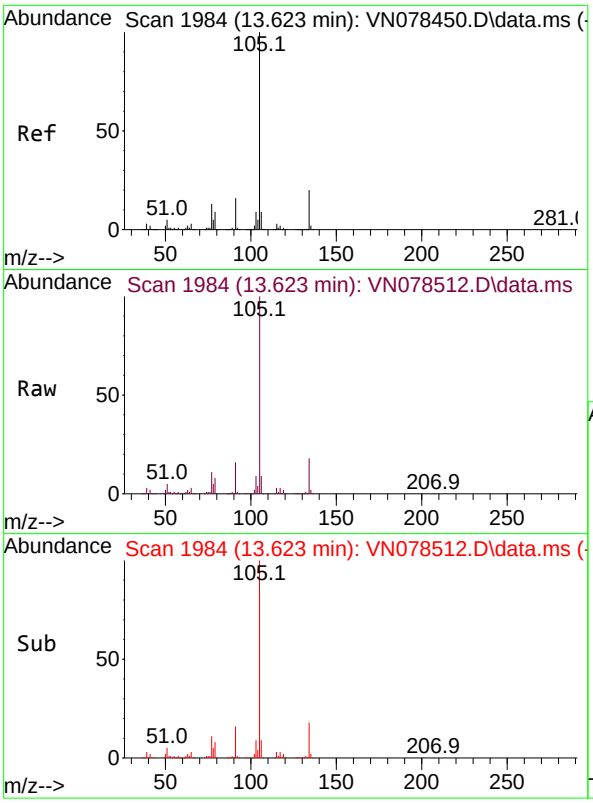


#84
1,2,4-Trimethylbenzene
Concen: 19.560 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:105 Resp: 366876

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.0	66.0

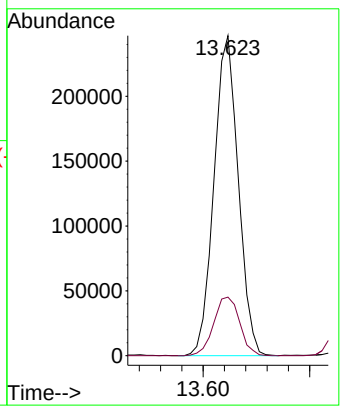




#85
sec-Butylbenzene
Concen: 18.830 ug/l
RT: 13.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:105 Resp: 39019

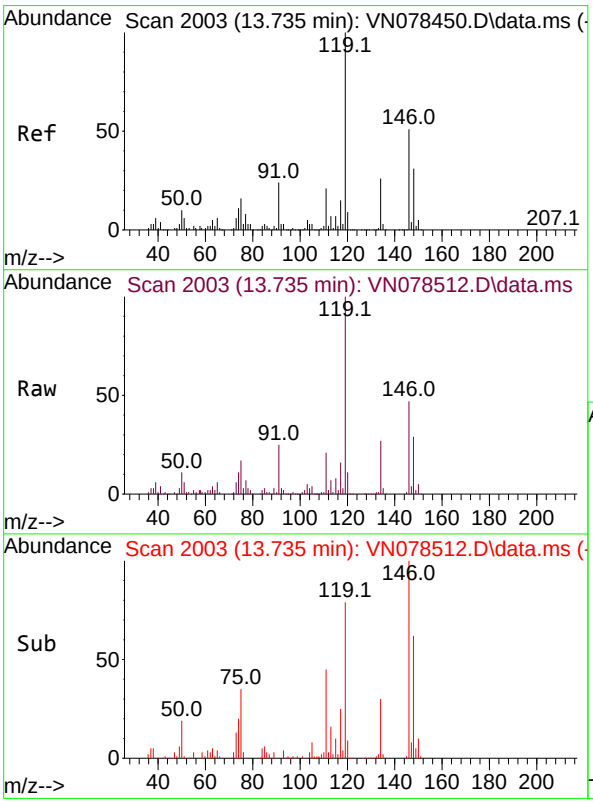
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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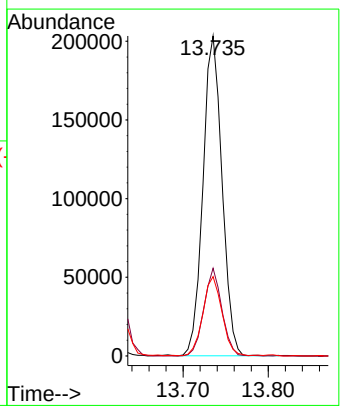
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

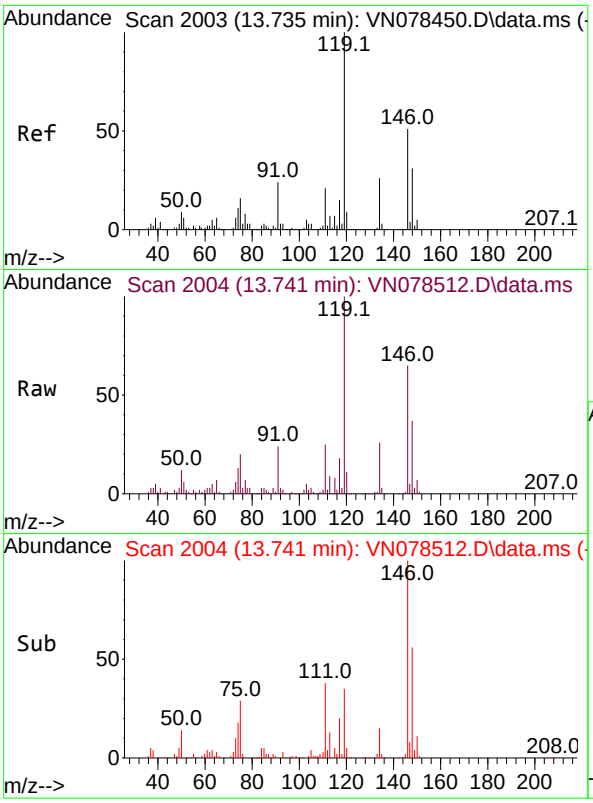


#86
p-Isopropyltoluene
Concen: 18.968 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:119 Resp: 315626

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.6	37.8
91	24.6	12.4	37.2

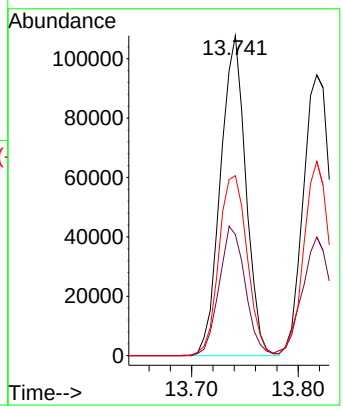




#87
1,3-Dichlorobenzene
Concen: 18.987 ug/l
RT: 13.741 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:146 Resp: 17814

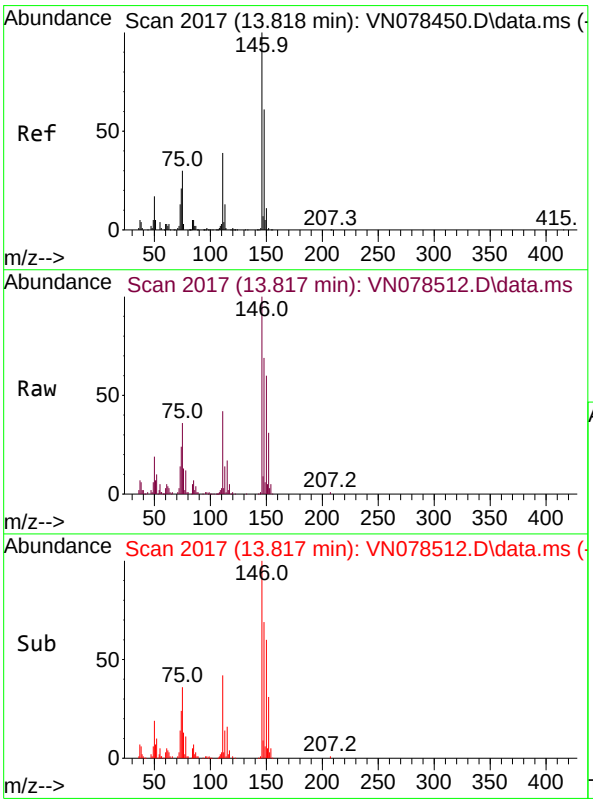
Ion	Ratio	Lower	Upper
146	100		
111	41.6	22.1	66.3
148	62.6	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

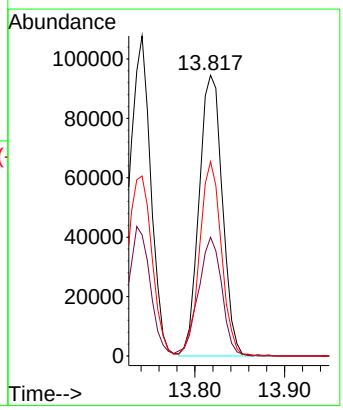
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

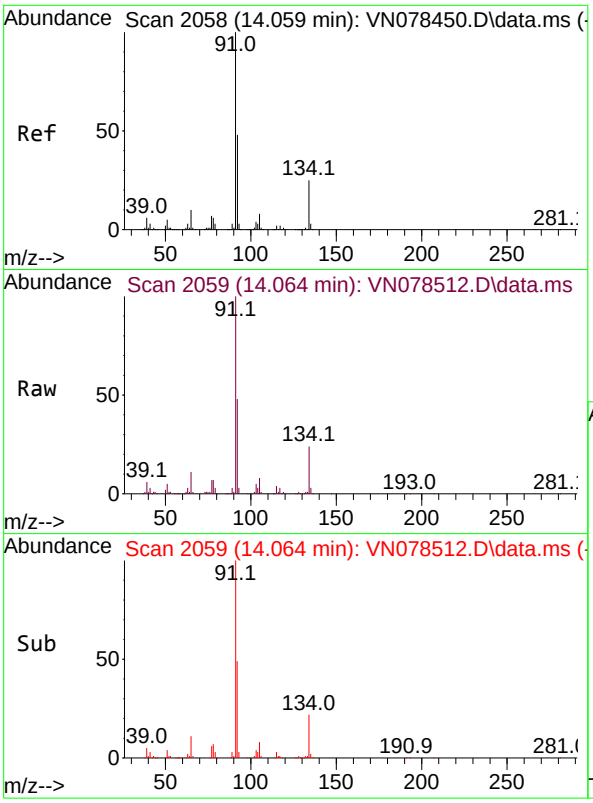


#88
1,4-Dichlorobenzene
Concen: 18.009 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:146 Resp: 170193

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.6	61.8
148	65.1	31.6	94.8





#89
n-Butylbenzene
Concen: 19.236 ug/l
RT: 14.064 min Scan# 2
Delta R.T. 0.005 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

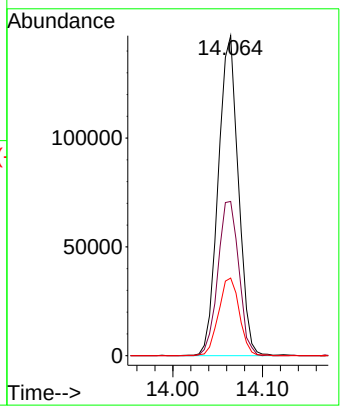
Tgt Ion: 91 Resp: 22901

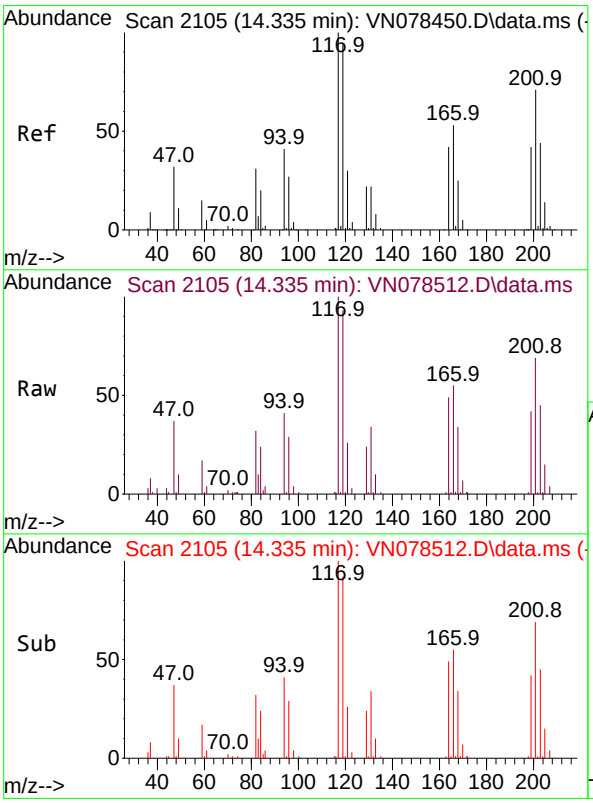
Ion	Ratio	Lower	Upper
91	100		
92	50.2	26.4	79.0
134	25.2	12.6	37.6

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

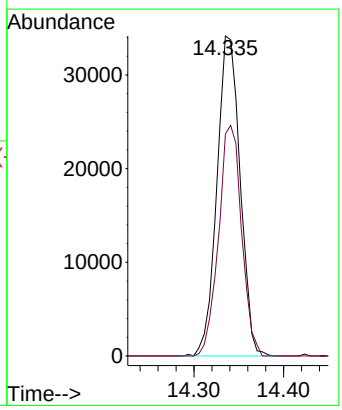


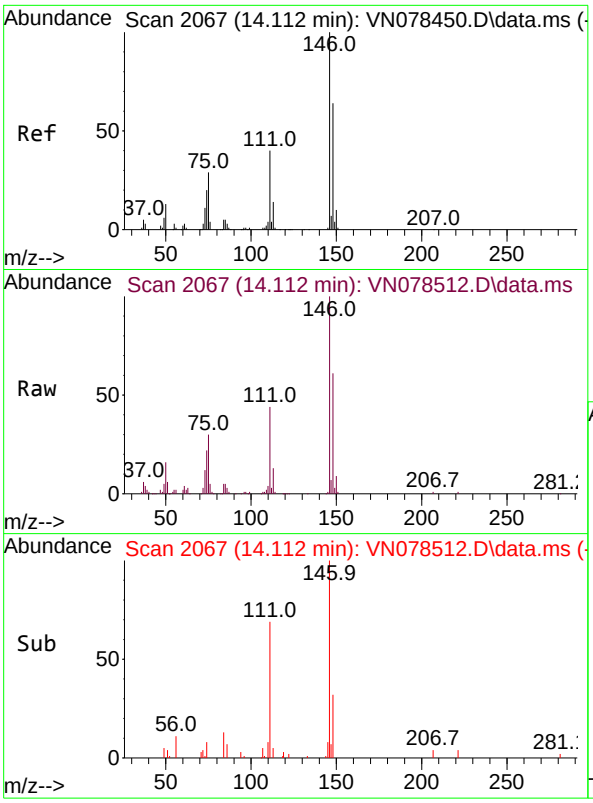


#90
Hexachloroethane
Concen: 19.531 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:117 Resp: 61254

Ion	Ratio	Lower	Upper
117	100		
201	71.5	29.3	88.0

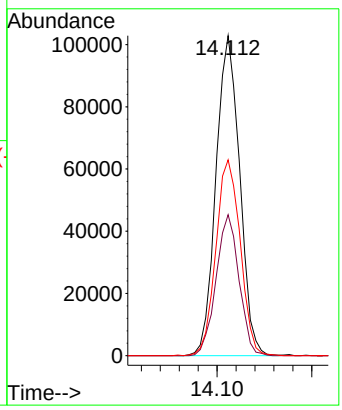




#91
1,2-Dichlorobenzene
Concen: 19.157 ug/l
RT: 14.112 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:146 Resp: 17887

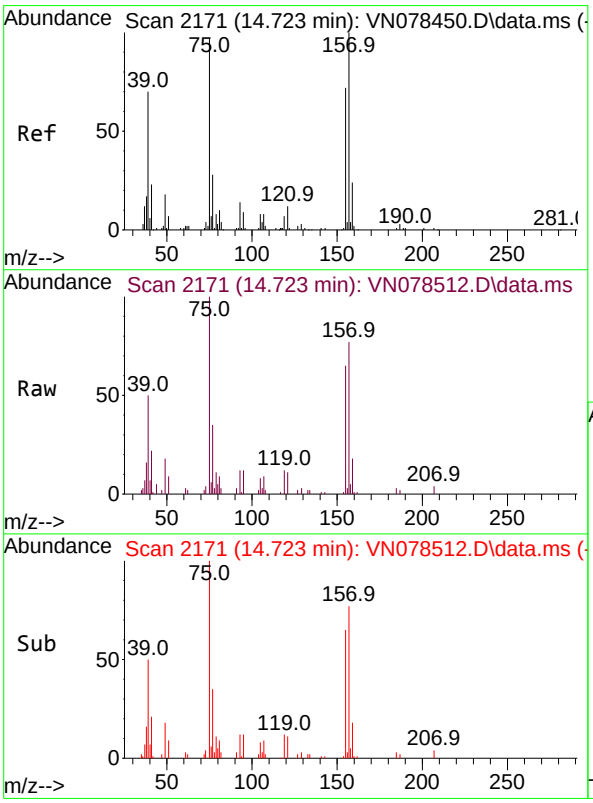
Ion	Ratio	Lower	Upper
146	100		
111	42.6	22.0	66.0
148	63.0	31.8	95.3



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

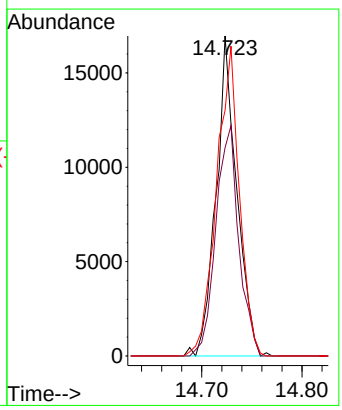
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

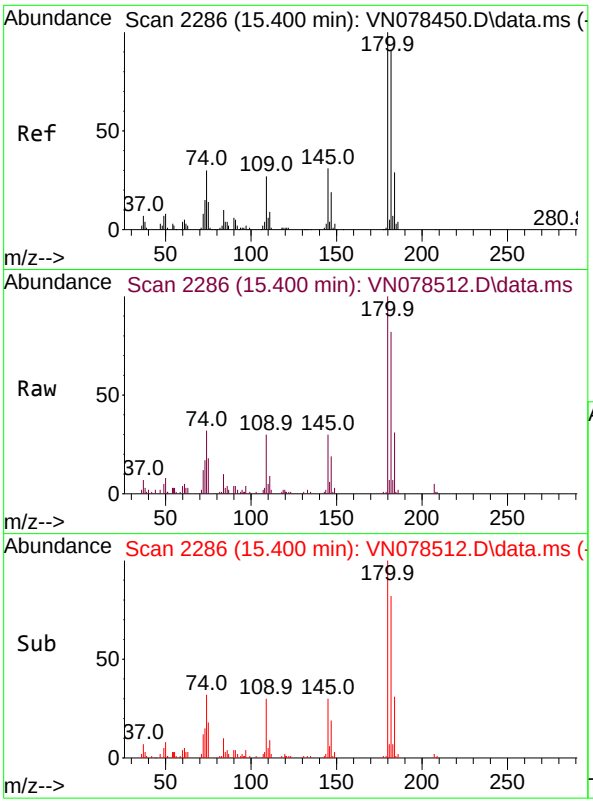


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.698 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion: 75 Resp: 24408

Ion	Ratio	Lower	Upper
75	100		
155	79.2	39.1	117.2
157	106.4	50.3	150.9





#93
1,2,4-Trichlorobenzene
Concen: 16.066 ug/l
RT: 15.400 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

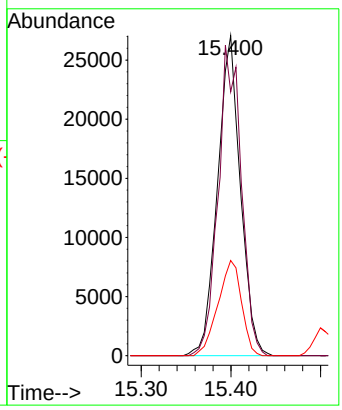
Tgt Ion:180 Resp: 4787

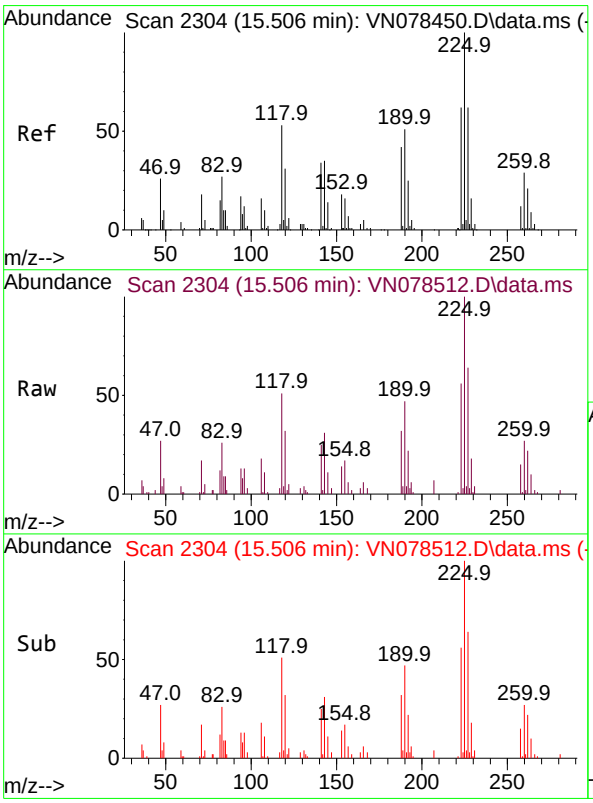
Ion	Ratio	Lower	Upper
180	100		
182	98.0	46.1	138.2
145	30.6	16.6	49.8

Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023

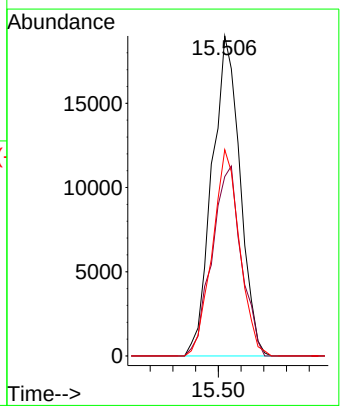


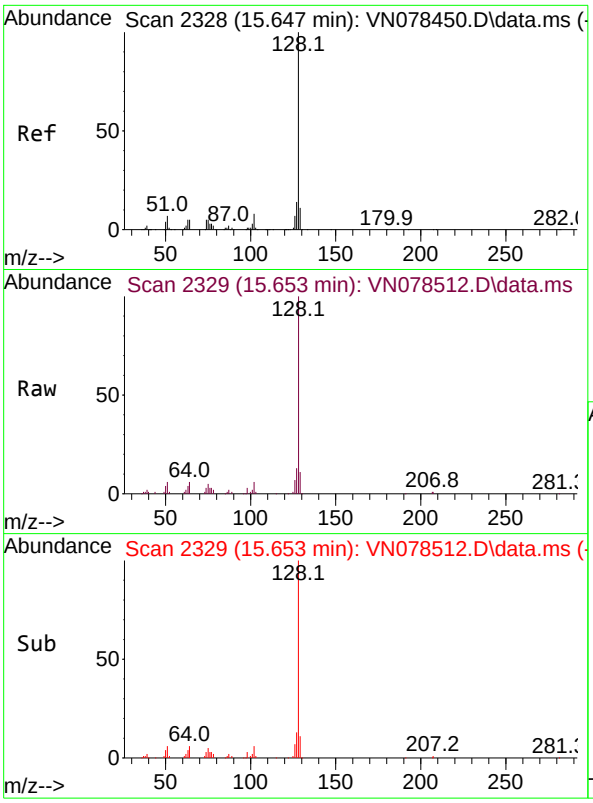


#94
Hexachlorobutadiene
Concen: 18.500 ug/l
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:225 Resp: 32539

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	62.5	31.9	95.9

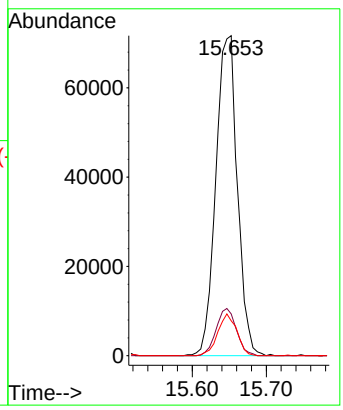




#95
Naphthalene
Concen: 14.211 ug/l
RT: 15.653 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:128 Resp: 14477

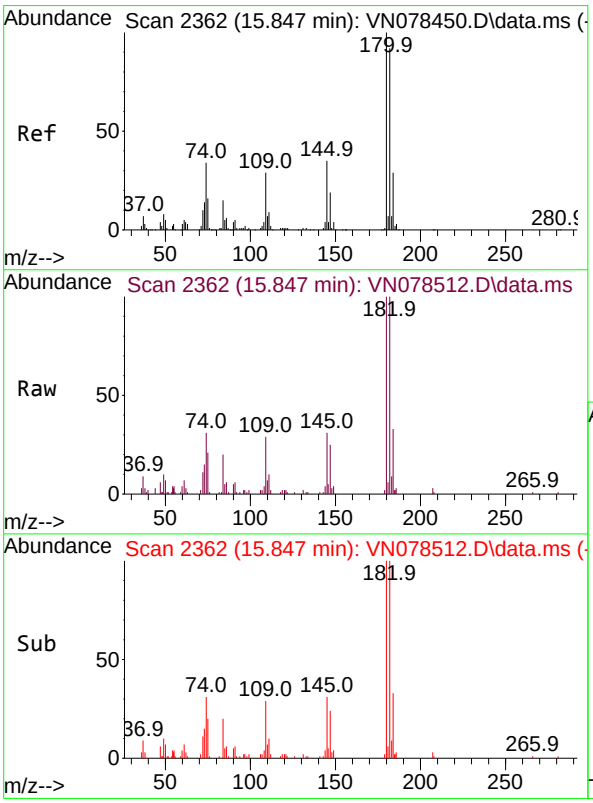
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.0	15.0
129	11.6	8.7	13.1



Instrument :
MSVOA_N
ClientSampleId :
VN0714WBSD01

Manual Integrations
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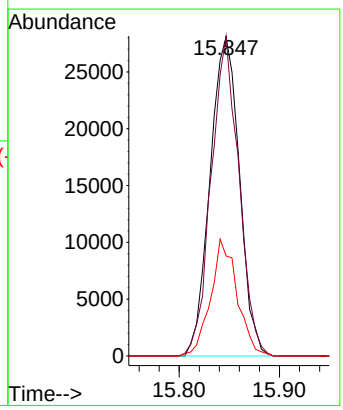
Reviewed By :John Carlone 07/17/2023
Supervised By :Mahesh Dadoda 07/17/2023



#96
1,2,3-Trichlorobenzene
Concen: 16.661 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078512.D
Acq: 14 Jul 2023 11:07

Tgt Ion:180 Resp: 57089

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.2	138.6
145	33.1	17.5	52.6



CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MS	SDG No.:	O3631
Lab Sample ID:	O3631-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	5.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014684.D	1		07/17/23 19:51	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	51.3		1.70	5.20	ug/Kg
74-87-3	Chloromethane	50.8		0.94	5.20	ug/Kg
75-01-4	Vinyl Chloride	61.7		0.96	5.20	ug/Kg
74-83-9	Bromomethane	57.4		1.30	5.20	ug/Kg
75-00-3	Chloroethane	60.2		0.91	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	54.5		1.10	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	53.7		0.75	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	51.0		0.82	5.20	ug/Kg
67-64-1	Acetone	84.1		9.70	25.9	ug/Kg
75-15-0	Carbon Disulfide	46.6		2.30	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	32.0		0.67	5.20	ug/Kg
79-20-9	Methyl Acetate	37.8		1.70	5.20	ug/Kg
75-09-2	Methylene Chloride	41.3		6.30	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	46.9		0.76	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	45.2		0.75	5.20	ug/Kg
110-82-7	Cyclohexane	47.1		0.73	5.20	ug/Kg
78-93-3	2-Butanone	89.5		7.50	25.9	ug/Kg
56-23-5	Carbon Tetrachloride	55.6		0.81	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	43.8		0.66	5.20	ug/Kg
74-97-5	Bromochloromethane	30.1		2.40	5.20	ug/Kg
67-66-3	Chloroform	44.0		1.40	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	51.3		0.79	5.20	ug/Kg
108-87-2	Methylcyclohexane	51.0		3.50	5.20	ug/Kg
71-43-2	Benzene	47.4		0.68	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	35.3		0.75	5.20	ug/Kg
79-01-6	Trichloroethene	49.9		0.68	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	42.0		0.61	5.20	ug/Kg
75-27-4	Bromodichloromethane	40.9		0.73	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.70	25.9	ug/Kg
108-88-3	Toluene	47.2		0.67	5.20	ug/Kg

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MS	SDG No.:	O3631
Lab Sample ID:	O3631-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	5.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014684.D	1		07/17/23 19:51	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	32.3		0.80	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	36.7		0.77	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	32.5		0.89	5.20	ug/Kg
591-78-6	2-Hexanone	100		5.50	25.9	ug/Kg
124-48-1	Dibromochloromethane	35.0		0.88	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	29.8		0.82	5.20	ug/Kg
127-18-4	Tetrachloroethene	55.3		0.80	5.20	ug/Kg
108-90-7	Chlorobenzene	48.6		0.65	5.20	ug/Kg
100-41-4	Ethyl Benzene	52.9		0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	100		1.50	10.4	ug/Kg
1330-20-7	Total Xylenes	150		2.30	15.6	ug/Kg
95-47-6	o-Xylene	50.4		0.80	5.20	ug/Kg
100-42-5	Styrene	45.4		0.72	5.20	ug/Kg
75-25-2	Bromoform	32.6		0.99	5.20	ug/Kg
98-82-8	Isopropylbenzene	66.0		0.74	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	37.9		1.10	5.20	ug/Kg
103-65-1	n-propylbenzene	61.4		0.73	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	59.9		0.66	5.20	ug/Kg
98-06-6	tert-Butylbenzene	64.6		0.80	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	57.6		0.70	5.20	ug/Kg
135-98-8	sec-Butylbenzene	62.0		0.80	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	59.5		0.77	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	51.2		0.71	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	49.0		0.62	5.20	ug/Kg
104-51-8	n-Butylbenzene	51.0		0.71	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	47.2		0.62	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	27.2		1.20	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	32.4		0.63	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	28.7		0.65	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.9		50 - 163	60%	SPK: 50

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MS	SDG No.:	O3631
Lab Sample ID:	O3631-02MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	5.65 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014684.D	1		07/17/23 19:51	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	41.3		54 - 147	83%	SPK: 50
2037-26-5	Toluene-d8	43.1		58 - 134	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	33.7		30 - 143	67%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.789			
540-36-3	1,4-Difluorobenzene	314000	8.685			
3114-55-4	Chlorobenzene-d5	246000	11.489			
3855-82-1	1,4-Dichlorobenzene-d4	96300	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014684.D
Acq On : 17 Jul 2023 19:51
Operator : SY/MD
Sample : 03631-02MS
Misc : 5.65g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 18 06:14:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	200657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	314084	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	246033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	96285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	68430	29.927	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	59.860%		
35) Dibromofluoromethane	7.716	113	82556	41.291	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	82.580%		
50) Toluene-d8	10.179	98	317522	43.075	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	86.160%		
62) 4-Bromofluorobenzene	12.483	95	95323	33.726	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	67.460%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	80824	49.440	ug/l	99
3) Chloromethane	2.113	50	89945	48.946	ug/l	97
4) Vinyl Chloride	2.247	62	122197	59.499	ug/l	98
5) Bromomethane	2.650	94	75065	55.307	ug/l	96
6) Chloroethane	2.790	64	74426	58.015	ug/l	98
7) Trichlorofluoromethane	3.119	101	181328	52.569	ug/l	99
8) Diethyl Ether	3.527	74	41930	32.671	ug/l	85
9) 1,1,2-Trichlorotrifluo...	3.899	101	109490	51.788	ug/l	94
10) Methyl Iodide	4.088	142	82033	37.237	ug/l	97
11) Tert butyl alcohol	4.954	59	30431	52.073	ug/l #	79
12) 1,1-Dichloroethene	3.869	96	97199	49.191	ug/l	92
13) Acrolein	3.729	56	3434	14.369	ug/l	90
14) Allyl chloride	4.479	41	138788	39.558	ug/l	96
15) Acrylonitrile	5.161	53	70264	99.284	ug/l	98
16) Acetone	3.942	43	58710	81.026	ug/l	96
17) Carbon Disulfide	4.192	76	253836	44.870	ug/l	98
18) Methyl Acetate	4.479	43	101346	36.447	ug/l	92
19) Methyl tert-butyl Ether	5.216	73	197900	30.832	ug/l	98
20) Methylene Chloride	4.710	84	95695	39.792	ug/l	90
21) trans-1,2-Dichloroethene	5.216	96	101445	45.240	ug/l	99
22) Diisopropyl ether	6.118	45	272002	38.133	ug/l #	85
23) Vinyl Acetate	6.112	43	236907m	55.500	ug/l	
24) 1,1-Dichloroethane	6.009	63	177796	43.563	ug/l	97
25) 2-Butanone	6.984	43	91413	86.234	ug/l	93
26) 2,2-Dichloropropane	6.978	77	156735	40.294	ug/l	97
27) cis-1,2-Dichloroethene	6.978	96	110256	42.241	ug/l	93
28) Bromochloromethane	7.332	49	50980	29.003	ug/l	91
29) Tetrahydrofuran	7.344	42	64519	98.844	ug/l	91
30) Chloroform	7.502	83	178667	42.452	ug/l	94
31) Cyclohexane	7.783	56	172470	45.438	ug/l	95
32) 1,1,1-Trichloroethane	7.704	97	187454	49.487	ug/l	98
36) 1,1-Dichloropropene	7.917	75	152170	50.893	ug/l	99
37) Ethyl Acetate	7.069	43	32748	15.908	ug/l #	94
38) Carbon Tetrachloride	7.899	117	169282	53.558	ug/l	98
39) Methylcyclohexane	9.185	83	191488	49.157	ug/l	93
40) Benzene	8.155	78	388686	45.708	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014684.D
Acq On : 17 Jul 2023 19:51
Operator : SY/MD
Sample : 03631-02MS
Misc : 5.65g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 18 06:14:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.307	41	19692	18.597	ug/l		87
42) 1,2-Dichloroethane	8.234	62	91626	34.025	ug/l		94
43) Isopropyl Acetate	8.271	43	79675	20.318	ug/l	#	89
44) Trichloroethene	8.941	130	114378	48.073	ug/l		97
45) 1,2-Dichloropropane	9.215	63	89875	40.475	ug/l		96
46) Dibromomethane	9.307	93	42149	31.289	ug/l		95
47) Bromodichloromethane	9.496	83	125315	39.470	ug/l		99
48) Methyl methacrylate	9.289	41	53239	30.171	ug/l		93
49) 1,4-Dioxane	9.289	88	9919	451.574	ug/l	#	51
51) 4-Methyl-2-Pentanone	10.069	43	237083	115.147	ug/l		93
52) Toluene	10.240	92	247706	45.521	ug/l		95
53) t-1,3-Dichloropropene	10.465	75	108271	31.176	ug/l		99
54) cis-1,3-Dichloropropene	9.929	75	133585	35.372	ug/l		93
55) 1,1,2-Trichloroethane	10.642	97	58841	31.358	ug/l		98
56) Ethyl methacrylate	10.508	69	57154	19.949	ug/l		88
57) 1,3-Dichloropropane	10.788	76	102852	31.779	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.782	63	173613	130.054	ug/l		93
59) 2-Hexanone	10.831	43	150549	100.266	ug/l		92
60) Dibromochloromethane	10.983	129	77556	33.711	ug/l		99
61) 1,2-Dibromoethane	11.087	107	53722	28.699	ug/l		100
64) Tetrachloroethene	10.721	164	105495	53.314	ug/l		97
65) Chlorobenzene	11.514	112	245439	46.814	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.587	131	91545	46.310	ug/l		97
67) Ethyl Benzene	11.593	91	483071	51.032	ug/l		99
68) m/p-Xylenes	11.703	106	360060	99.645	ug/l		96
69) o-Xylene	12.026	106	170878	48.551	ug/l		97
70) Styrene	12.044	104	259483	43.744	ug/l		99
71) Bromoform	12.209	173	42106	31.424	ug/l	#	99
73) Isopropylbenzene	12.325	105	479669	63.624	ug/l		100
74) N-amyl acetate	12.142	43	37163	14.718	ug/l	#	91
75) 1,1,2,2-Tetrachloroethane	12.581	83	62887	36.578	ug/l		99
76) 1,2,3-Trichloropropane	12.636	75	43144m	35.479	ug/l		
77) Bromobenzene	12.605	156	88055	51.167	ug/l		97
78) n-propylbenzene	12.672	91	538014	59.222	ug/l		99
79) 2-Chlorotoluene	12.758	91	289487	55.323	ug/l		100
80) 1,3,5-Trimethylbenzene	12.812	105	363725	57.768	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.380	75	13866	22.077	ug/l		93
82) 4-Chlorotoluene	12.855	91	284339	52.762	ug/l		100
83) tert-Butylbenzene	13.075	119	347710	62.255	ug/l		100
84) 1,2,4-Trimethylbenzene	13.117	105	343023	55.514	ug/l		100
85) sec-Butylbenzene	13.251	105	489819	59.784	ug/l		100
86) p-Isopropyltoluene	13.367	119	383874	57.385	ug/l		99
87) 1,3-Dichlorobenzene	13.367	146	165211	49.326	ug/l		98
88) 1,4-Dichlorobenzene	13.446	146	158619	47.259	ug/l		98
89) n-Butylbenzene	13.696	91	319758	49.132	ug/l		96
90) Hexachloroethane	13.959	117	78174	56.895	ug/l		87
91) 1,2-Dichlorobenzene	13.739	146	139547	45.475	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	8634	26.260	ug/l		90
93) 1,2,4-Trichlorobenzene	15.007	180	60910	31.268	ug/l		98
94) Hexachlorobutadiene	15.111	225	40577	37.905	ug/l		98
95) Naphthalene	15.233	128	115667	25.487	ug/l		98
96) 1,2,3-Trichlorobenzene	15.422	180	47892	27.663	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014684.D
Acq On : 17 Jul 2023 19:51
Operator : SY/MD
Sample : 03631-02MS
Misc : 5.65g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 18 06:14:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

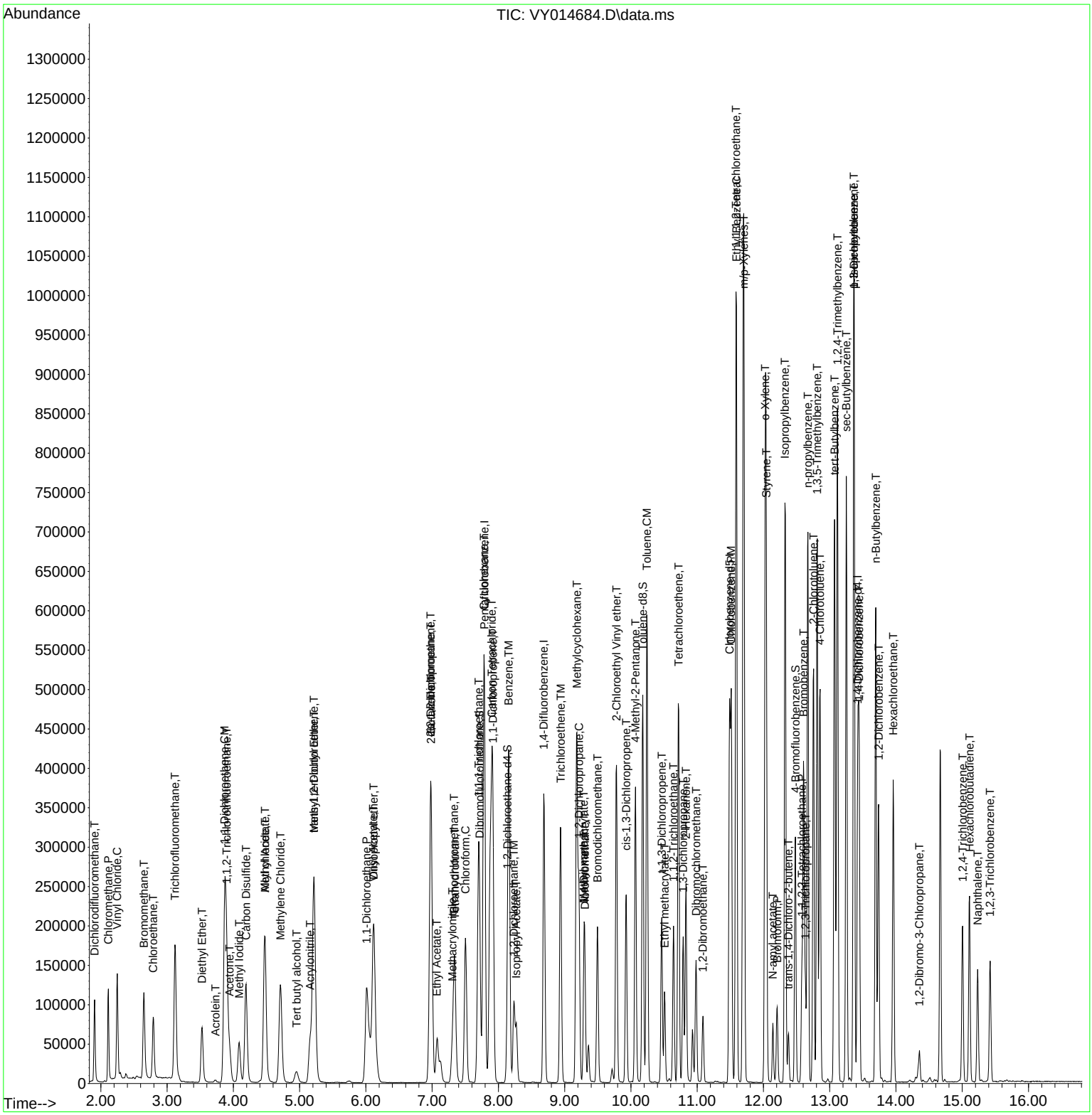
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Data File : VY014684.D
Acq On : 17 Jul 2023 19:51
Operator : SY/MD
Sample : 03631-02MS
Misc : 5.65g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 24 Sample Multiplier: 1

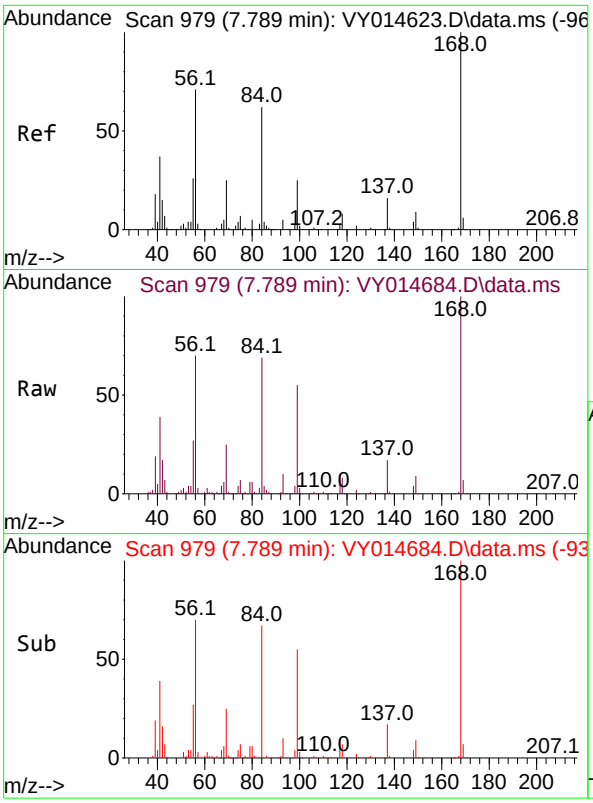
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Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
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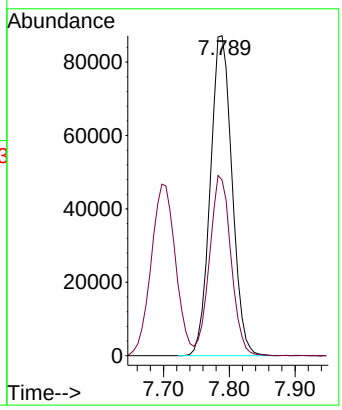




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:168 Resp: 20065

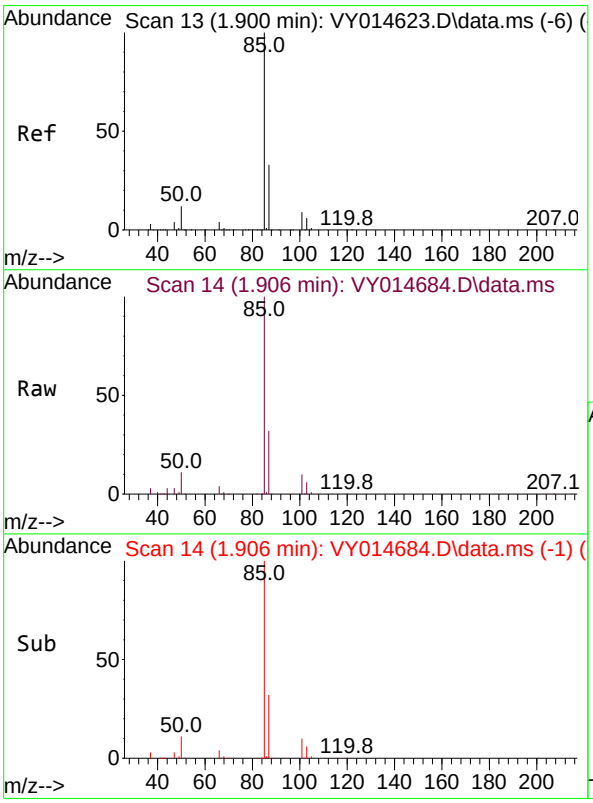
Ion	Ratio	Lower	Upper
168	100		
99	54.8	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

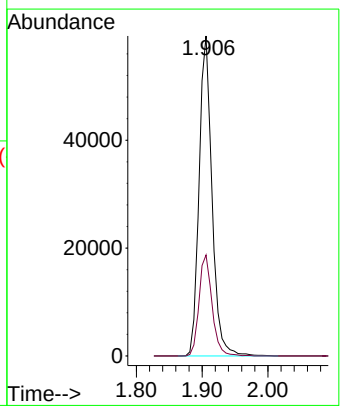
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

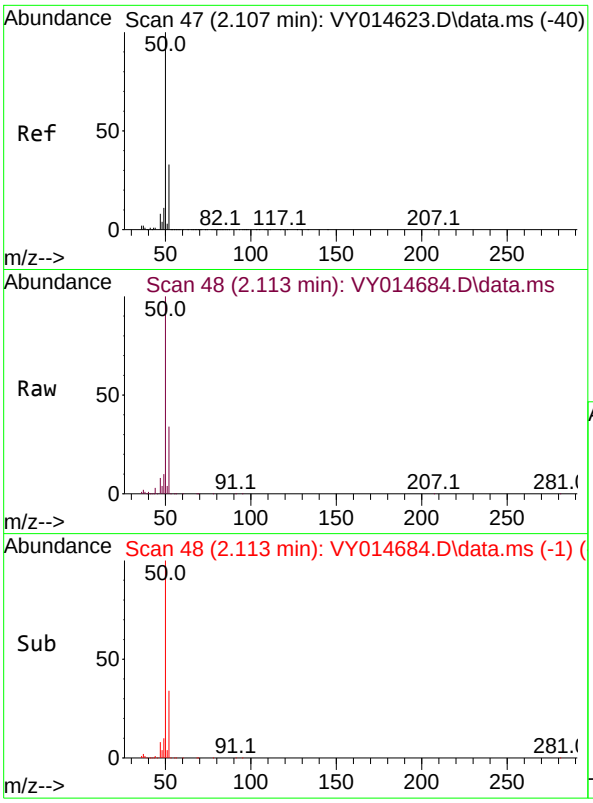


#2
Dichlorodifluoromethane
Concen: 49.440 ug/l
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 85 Resp: 80824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.6	46.8

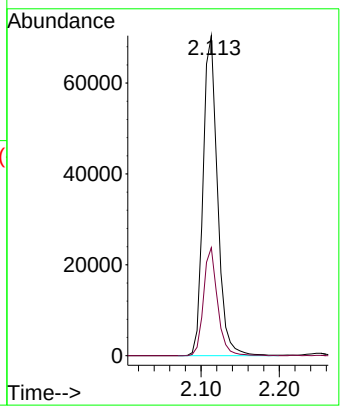




#3
Chloromethane
Concen: 48.946 ug/l
RT: 2.113 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 50 Resp: 8994

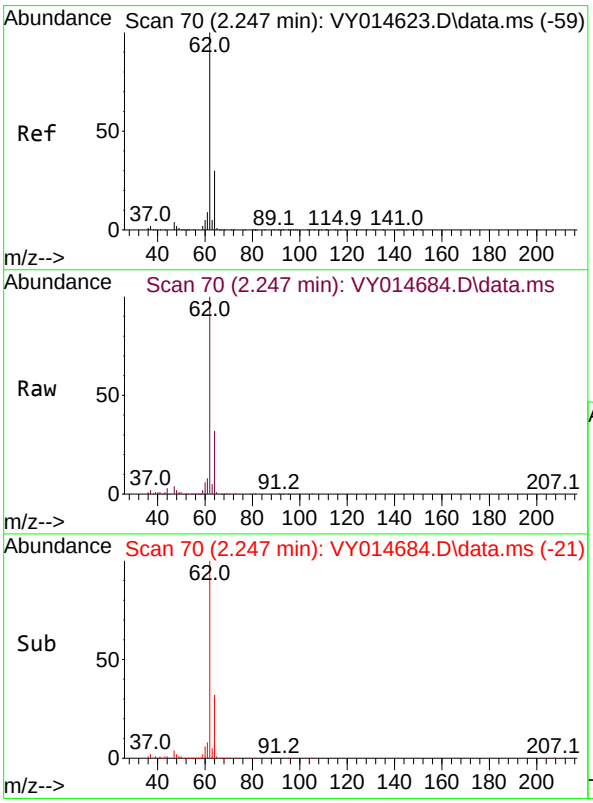
Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

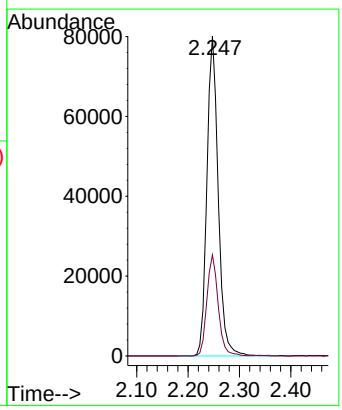
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

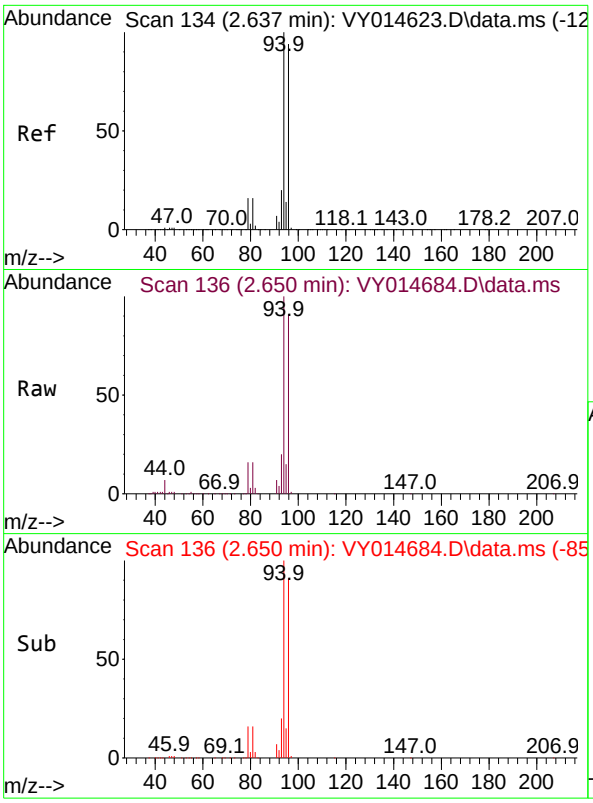


#4
Vinyl Chloride
Concen: 59.499 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 62 Resp: 122197

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.3	36.5

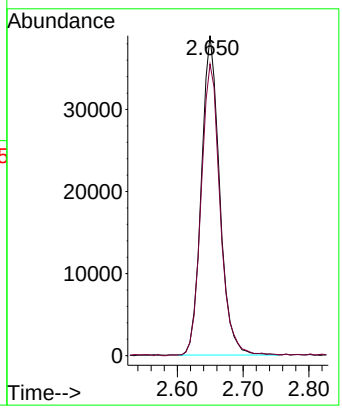




#5
Bromomethane
Concen: 55.307 ug/l
RT: 2.650 min Scan# 1
Delta R.T. 0.013 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 94 Resp: 7506

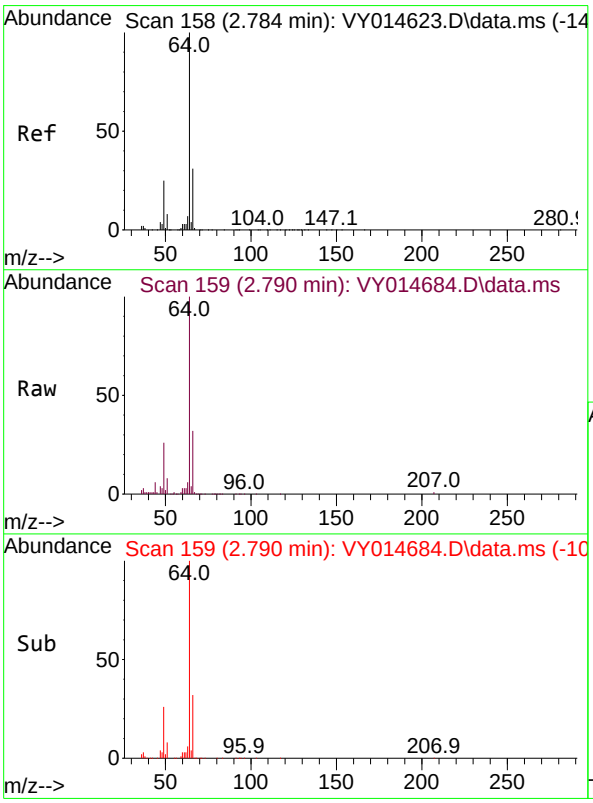
Ion	Ratio	Lower	Upper
94	100		
96	91.1	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

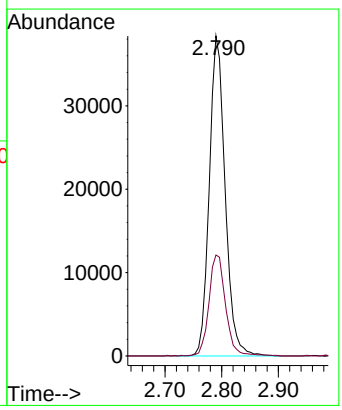
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

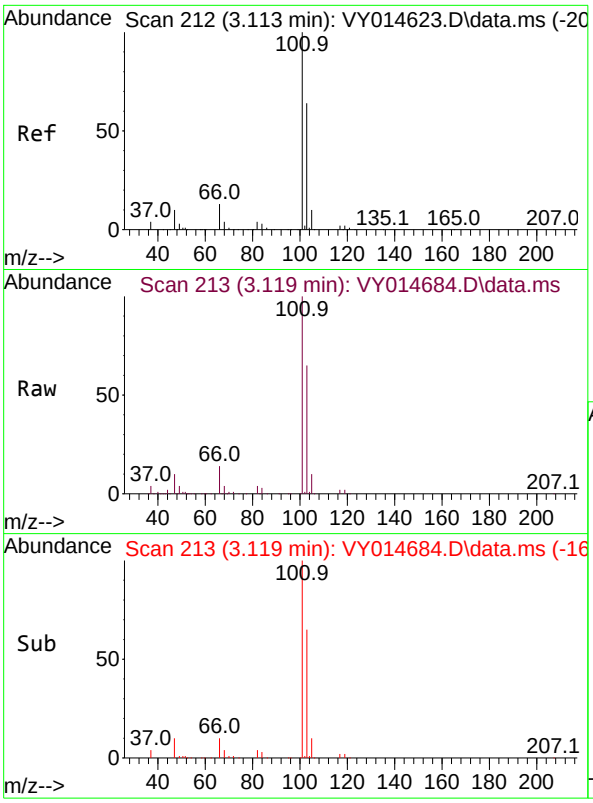


#6
Chloroethane
Concen: 58.015 ug/l
RT: 2.790 min Scan# 159
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 64 Resp: 74426

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.4	36.6

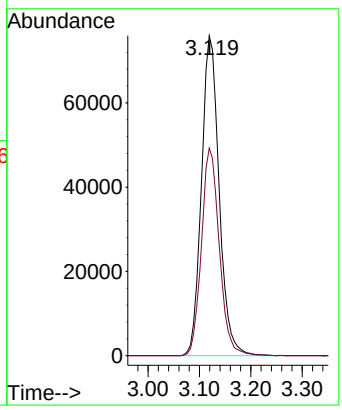




#7
Trichlorofluoromethane
Concen: 52.569 ug/l
RT: 3.119 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:101 Resp: 18132

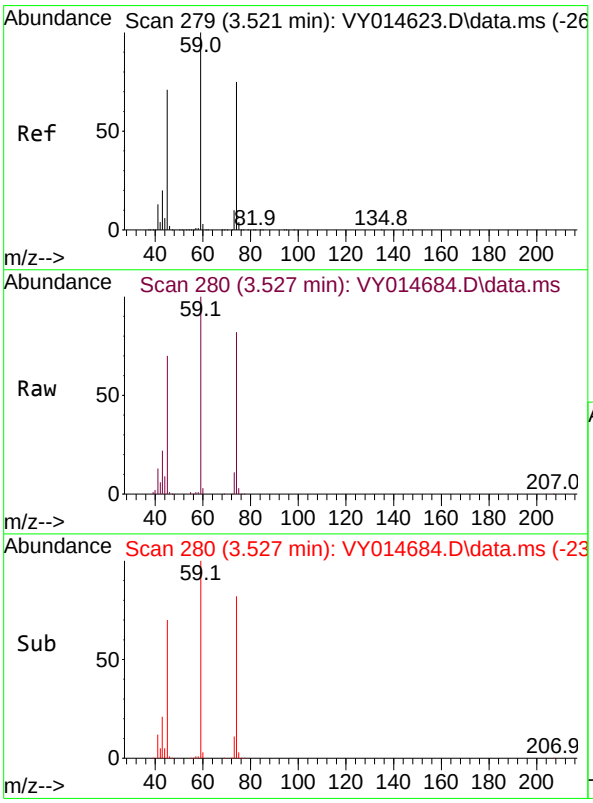
Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

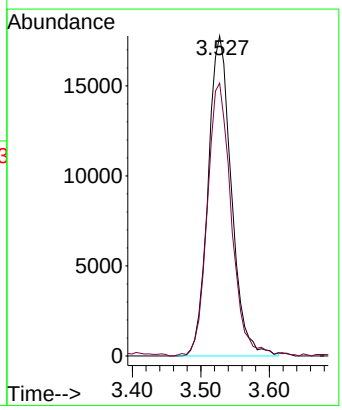
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

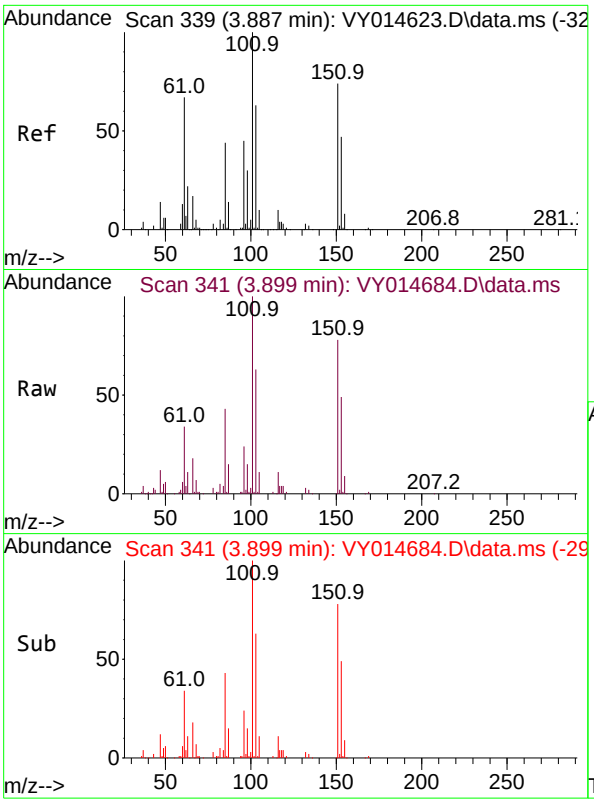


#8
Diethyl Ether
Concen: 32.671 ug/l
RT: 3.527 min Scan# 280
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 74 Resp: 41930

Ion	Ratio	Lower	Upper
74	100		
45	88.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.788 ug/l
RT: 3.899 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

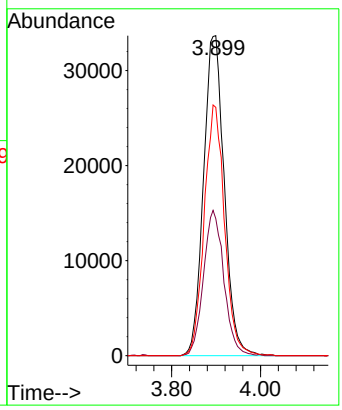
Tgt Ion:101 Resp: 10949

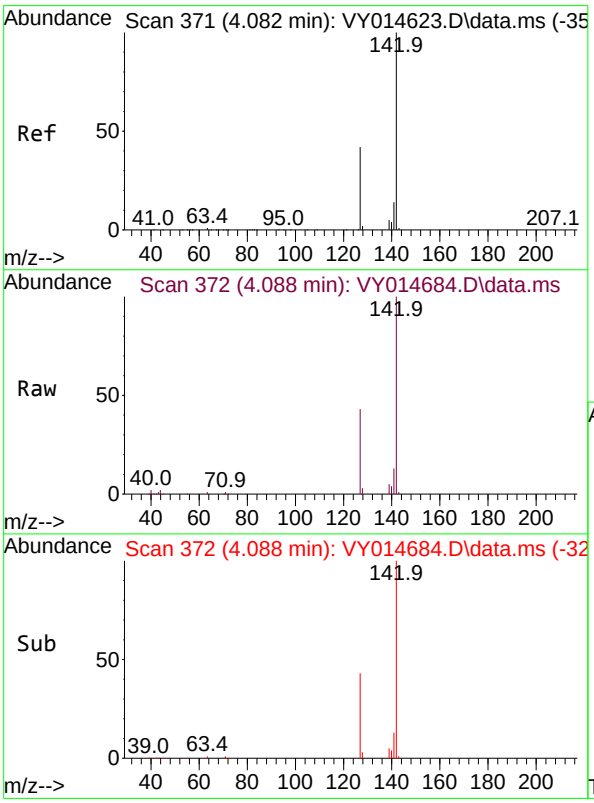
Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.6	55.0
151	76.7	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

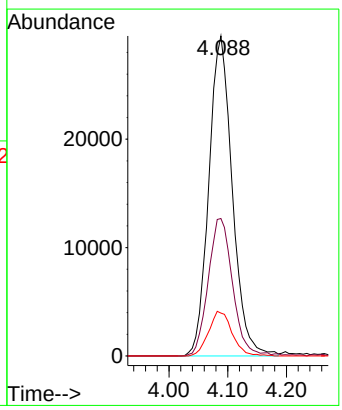


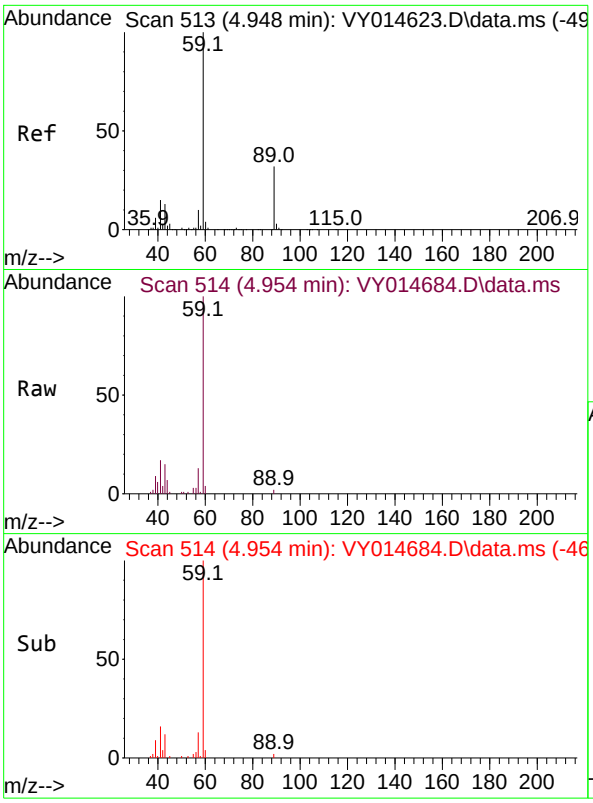


#10
Methyl Iodide
Concen: 37.237 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:142 Resp: 82033

Ion	Ratio	Lower	Upper
142	100		
127	44.9	37.6	56.4
141	14.0	11.8	17.8





#11
Tert butyl alcohol
Concen: 52.073 ug/l
RT: 4.954 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

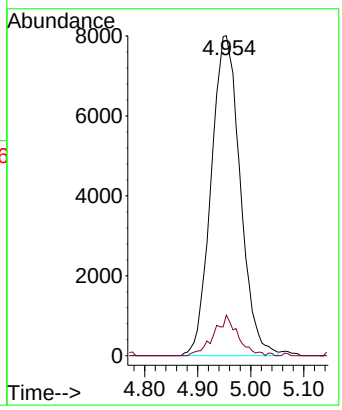
Tgt Ion: 59 Resp: 3043

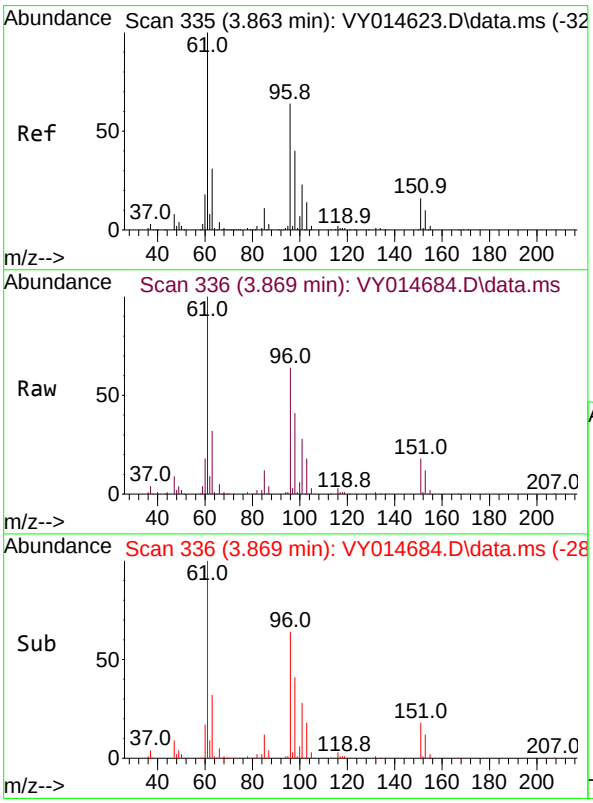
Ion	Ratio	Lower	Upper
59	100		
57	10.5	3.0	4.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

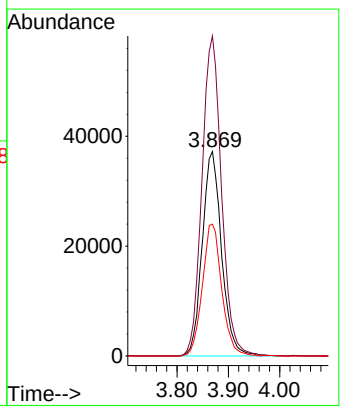


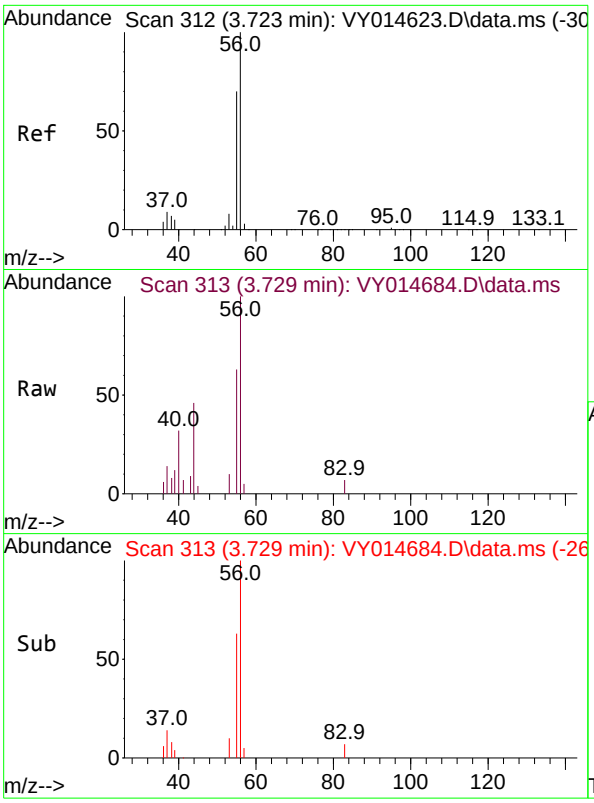


#12
1,1-Dichloroethene
Concen: 49.191 ug/l
RT: 3.869 min Scan# 336
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 96 Resp: 97199

Ion	Ratio	Lower	Upper
96	100		
61	156.5	136.4	204.6
98	64.4	49.4	74.2

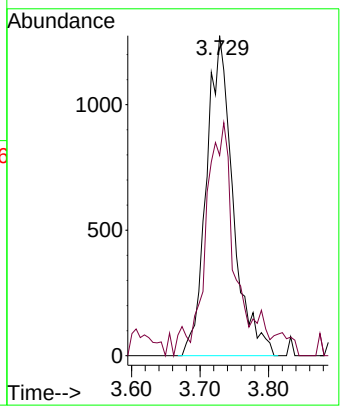




#13
Acrolein
Concen: 14.369 ug/l
RT: 3.729 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 56 Resp: 3434

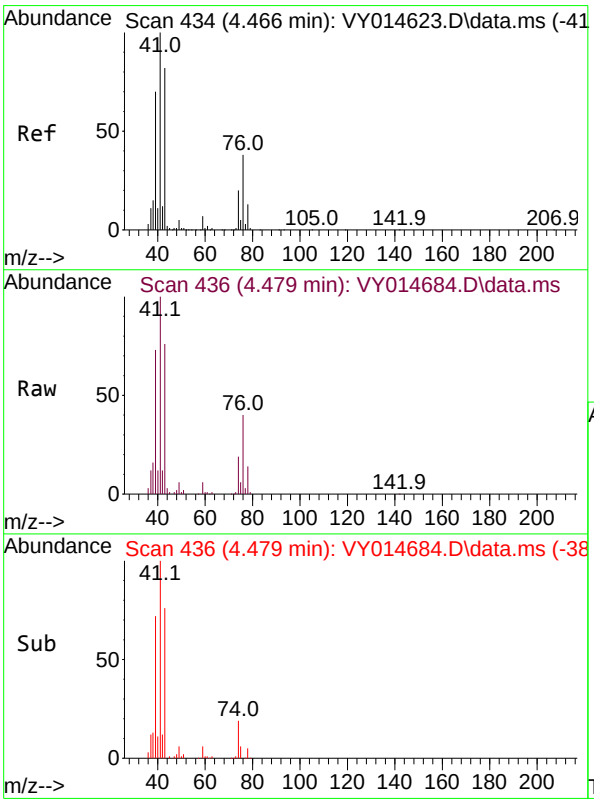
Ion	Ratio	Lower	Upper
56	100		
55	62.8	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

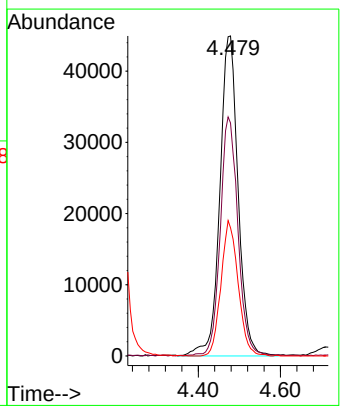
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

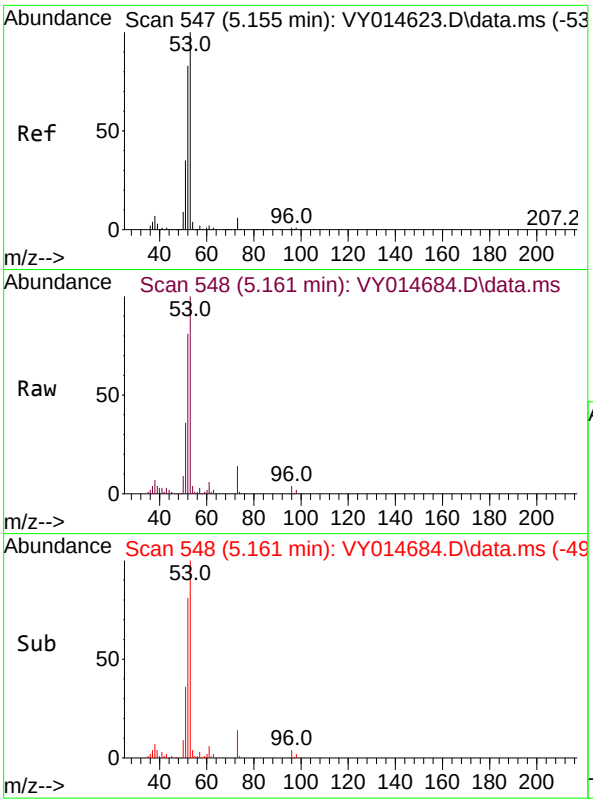


#14
Allyl chloride
Concen: 39.558 ug/l
RT: 4.479 min Scan# 436
Delta R.T. 0.013 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 41 Resp: 138788

Ion	Ratio	Lower	Upper
41	100		
39	71.8	58.0	87.0
76	39.6	27.4	41.2





#15
Acrylonitrile
Concen: 99.284 ug/l
RT: 5.161 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

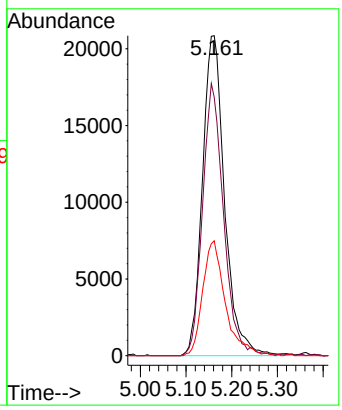
Tgt Ion: 53 Resp: 7026

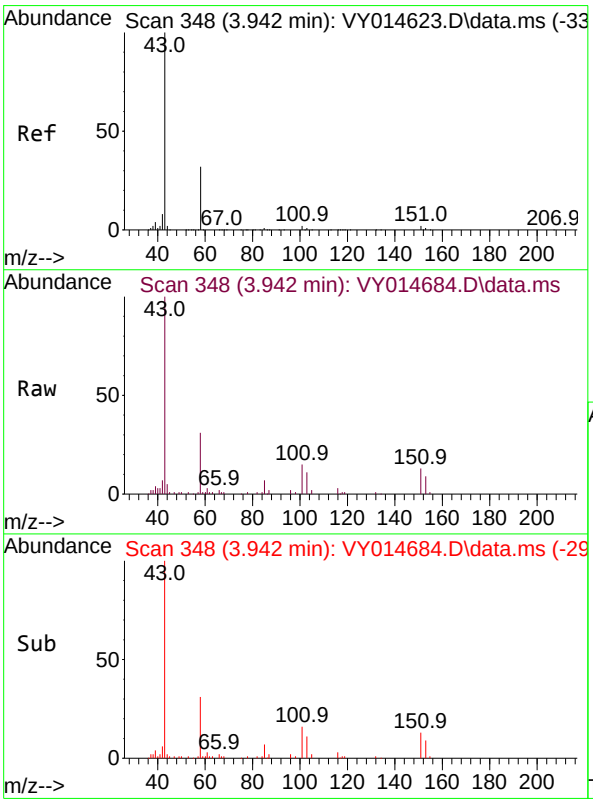
Ion	Ratio	Lower	Upper
53	100		
52	80.7	66.9	100.3
51	36.8	29.8	44.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

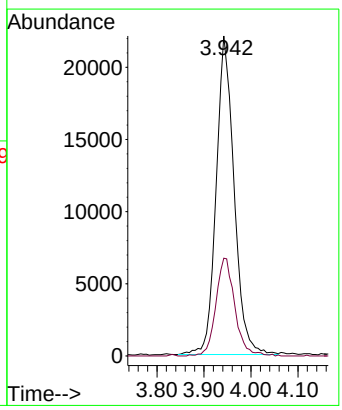


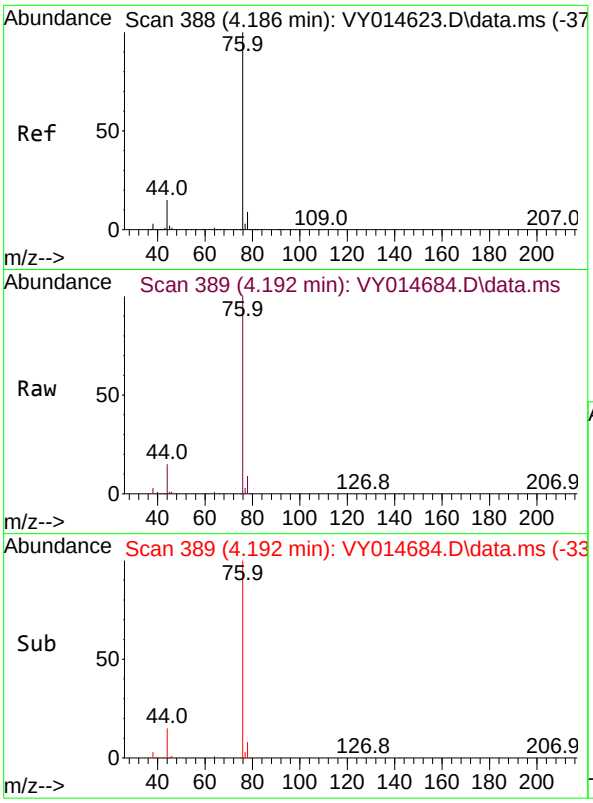


#16
Acetone
Concen: 81.026 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 43 Resp: 58710

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.7	34.1

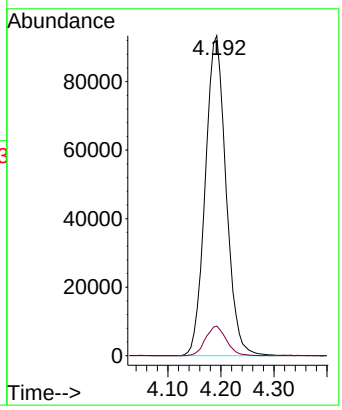




#17
Carbon Disulfide
Concen: 44.870 ug/l
RT: 4.192 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 76 Resp: 25383

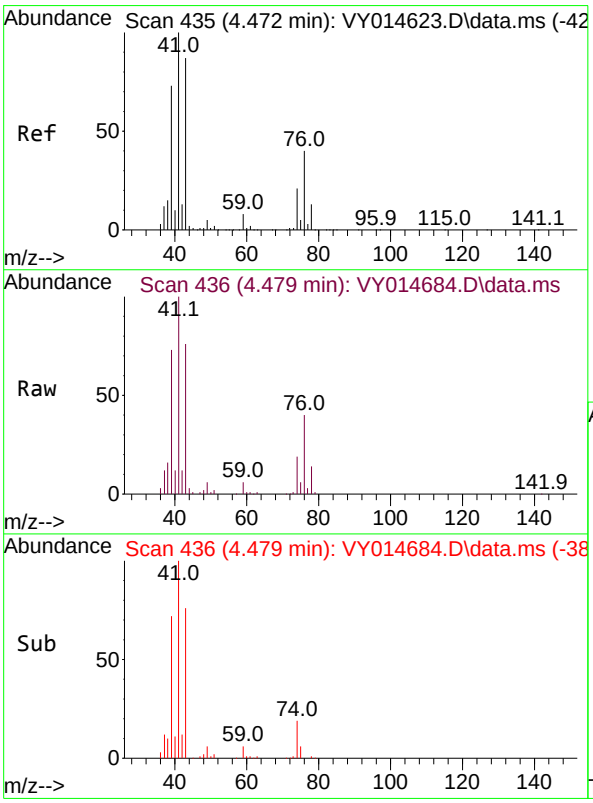
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

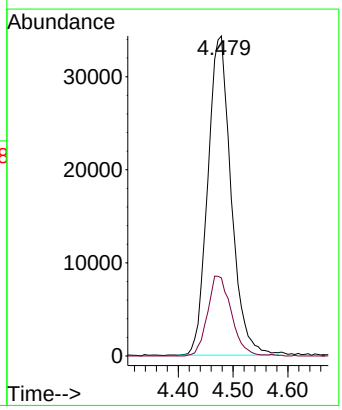
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

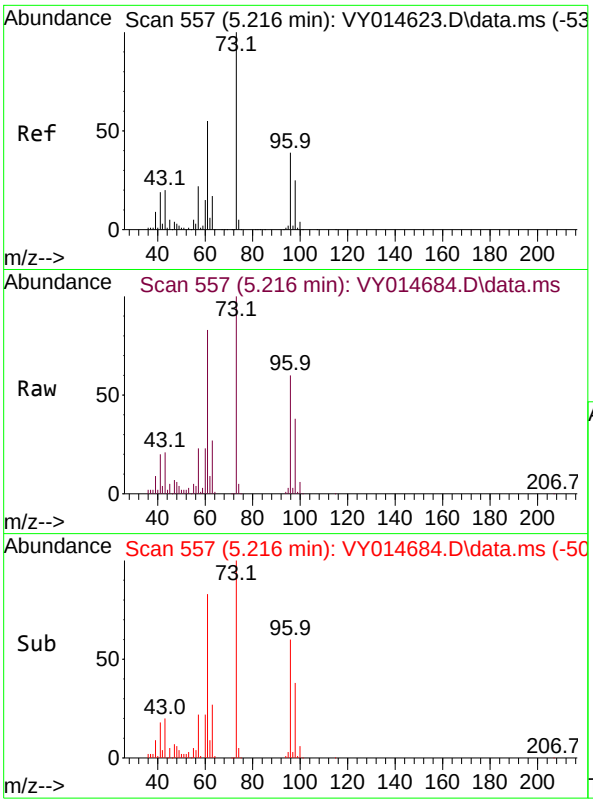


#18
Methyl Acetate
Concen: 36.447 ug/l
RT: 4.479 min Scan# 436
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 43 Resp: 101346

Ion	Ratio	Lower	Upper
43	100		
74	25.6	17.4	26.0

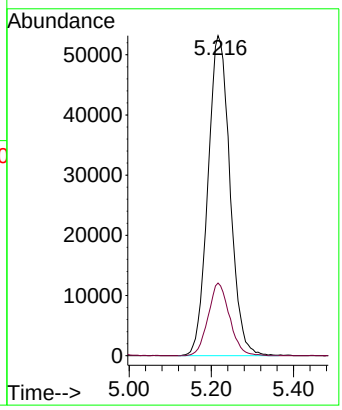




#19
Methyl tert-butyl Ether
Concen: 30.832 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 73 Resp: 19790

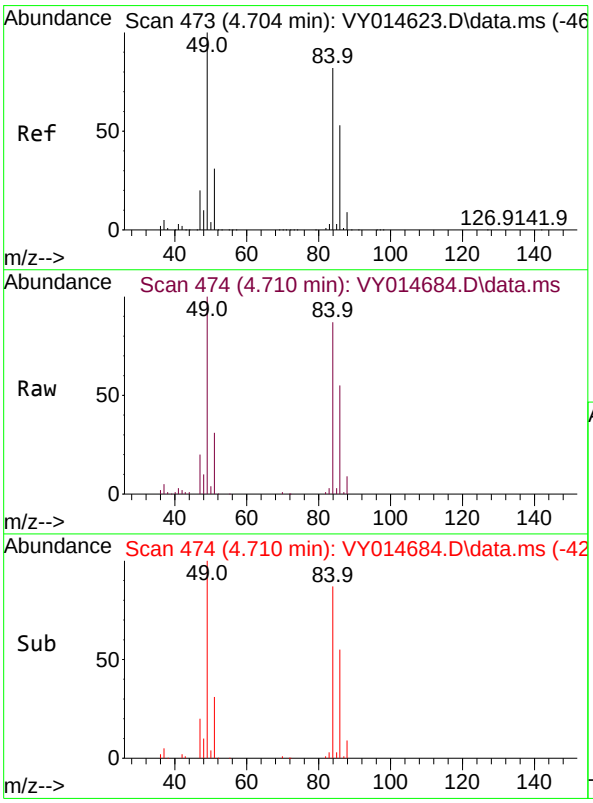
Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

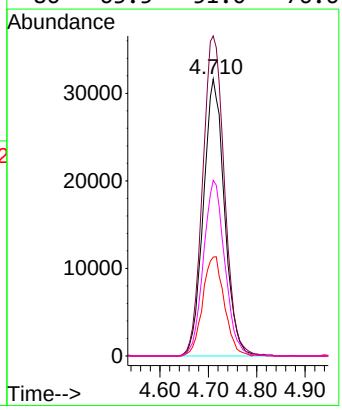
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

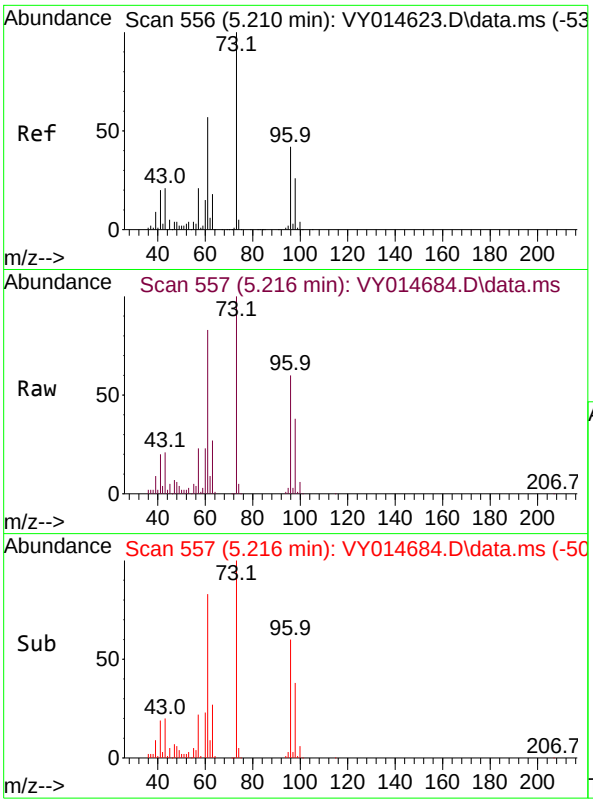


#20
Methylene Chloride
Concen: 39.792 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 84 Resp: 95695

Ion	Ratio	Lower	Upper
84	100		
49	115.6	106.9	160.3
51	35.7	33.2	49.8
86	63.5	51.0	76.6

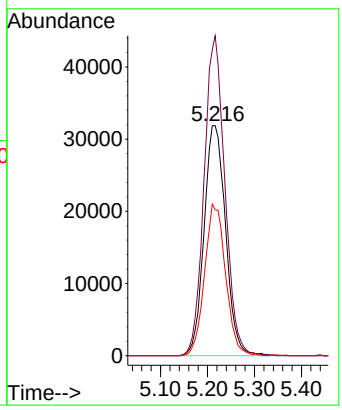




#21
trans-1,2-Dichloroethene
Concen: 45.240 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 96 Resp: 10144

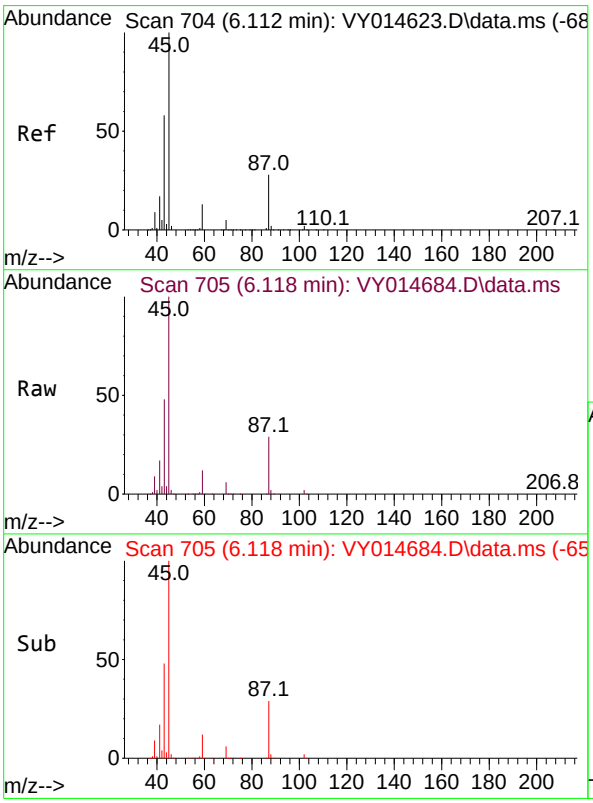
Ion	Ratio	Lower	Upper
96	100		
61	139.1	110.2	165.4
98	63.5	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

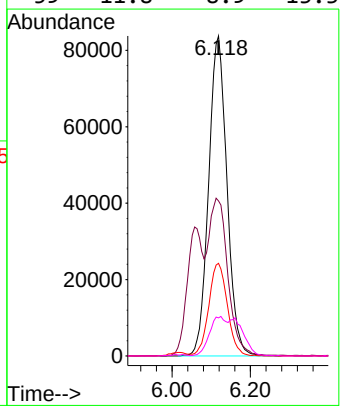
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

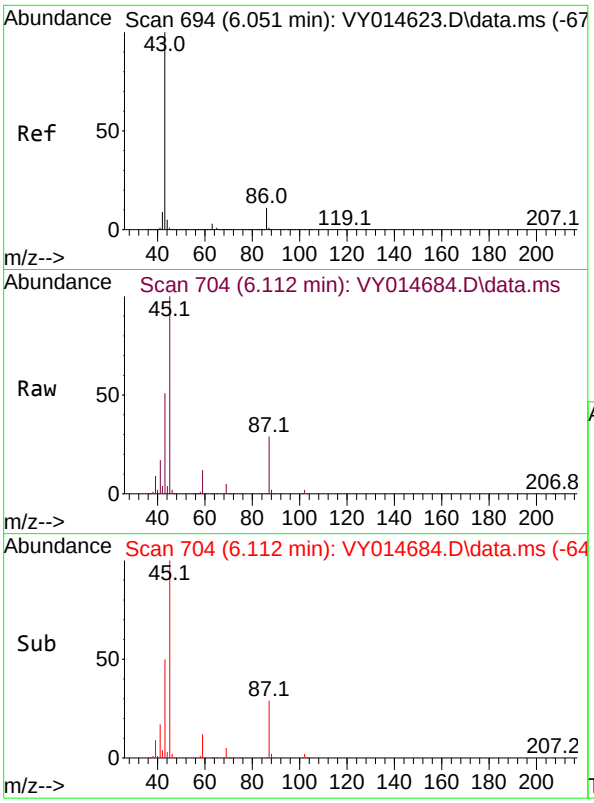


#22
Diisopropyl ether
Concen: 38.133 ug/l
RT: 6.118 min Scan# 705
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 45 Resp: 272002

Ion	Ratio	Lower	Upper
45	100		
43	48.2	52.2	78.4#
87	29.0	21.0	31.6
59	11.8	8.9	13.3





#23
Vinyl Acetate
Concen: 55.500 ug/l m
RT: 6.112 min Scan# 7
Delta R.T. 0.061 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

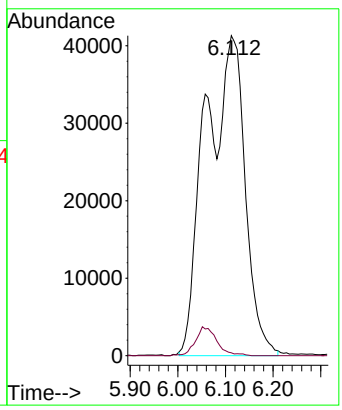
Tgt Ion: 43 Resp: 23690

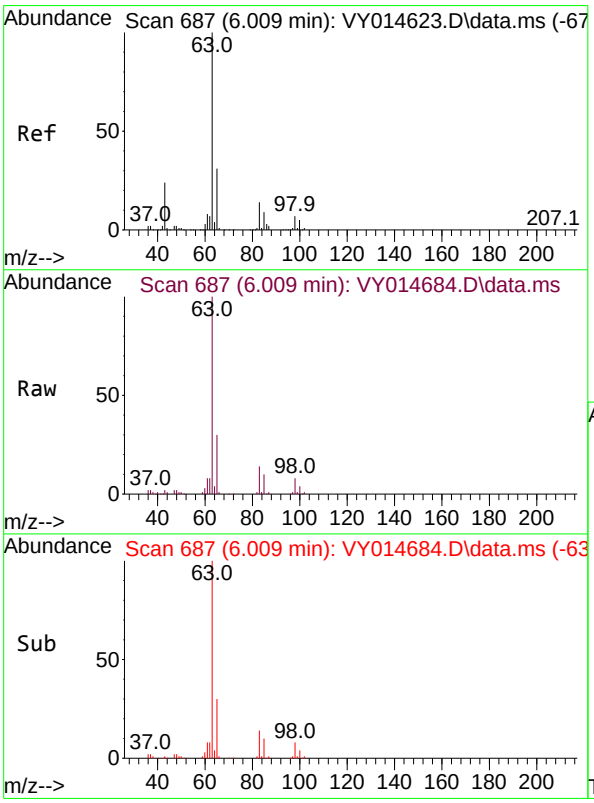
Ion	Ratio	Lower	Upper
43	100		
86	0.9	7.5	11.3#

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

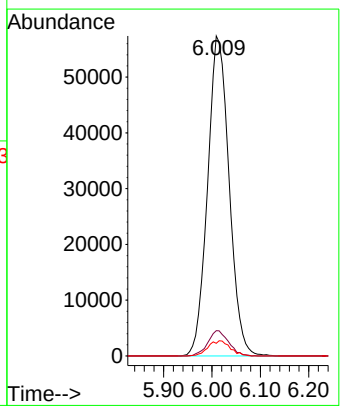


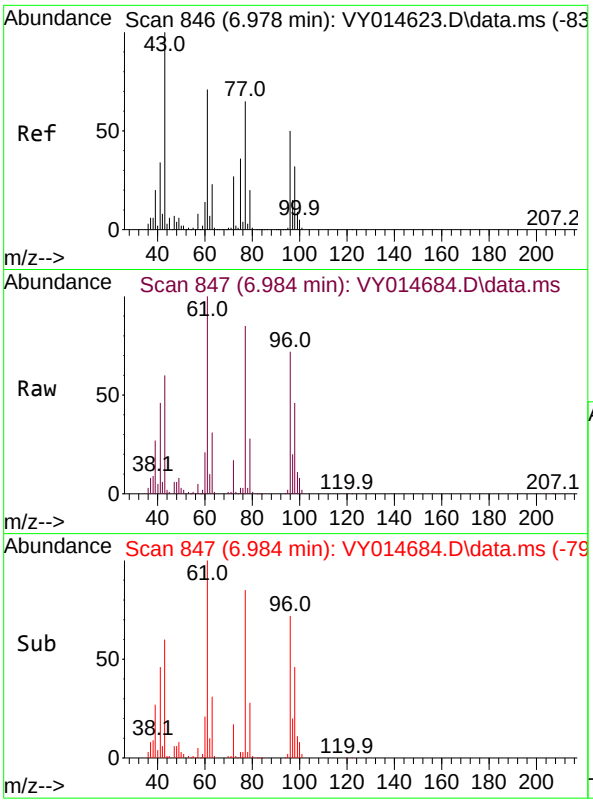


#24
1,1-Dichloroethane
Concen: 43.563 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 63 Resp: 177796

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.1	9.4
100	4.0	1.8	5.5

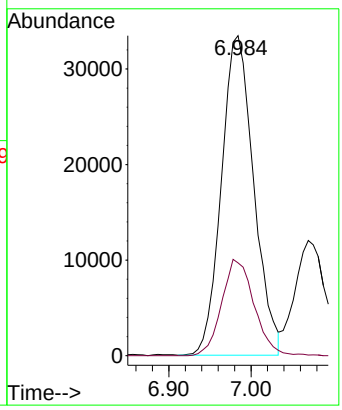




#25
2-Butanone
Concen: 86.234 ug/l
RT: 6.984 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 43 Resp: 9141

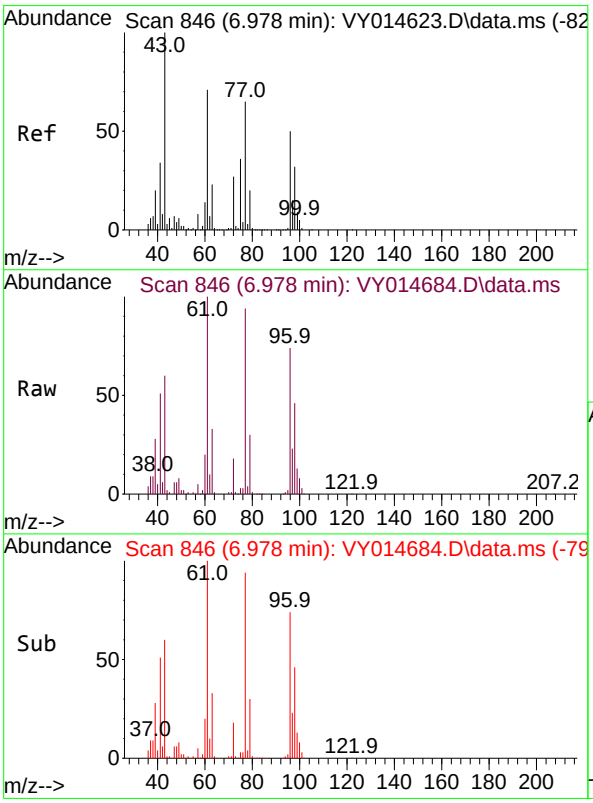
Ion	Ratio	Lower	Upper
43	100		
72	29.0	20.5	30.7



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

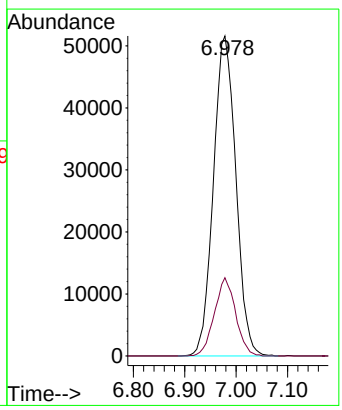
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

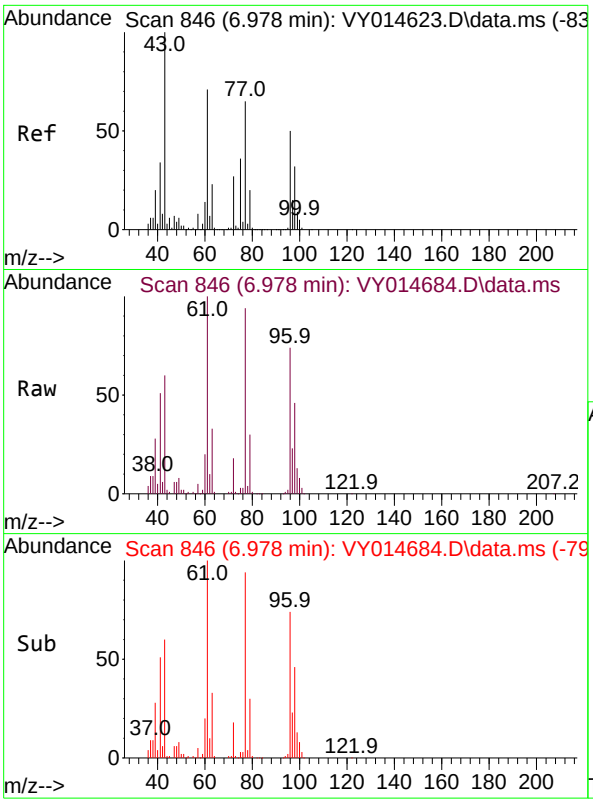


#26
2,2-Dichloropropane
Concen: 40.294 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 77 Resp: 156735

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 42.241 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

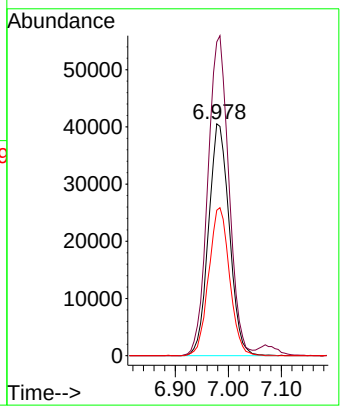
Tgt Ion: 96 Resp: 11025

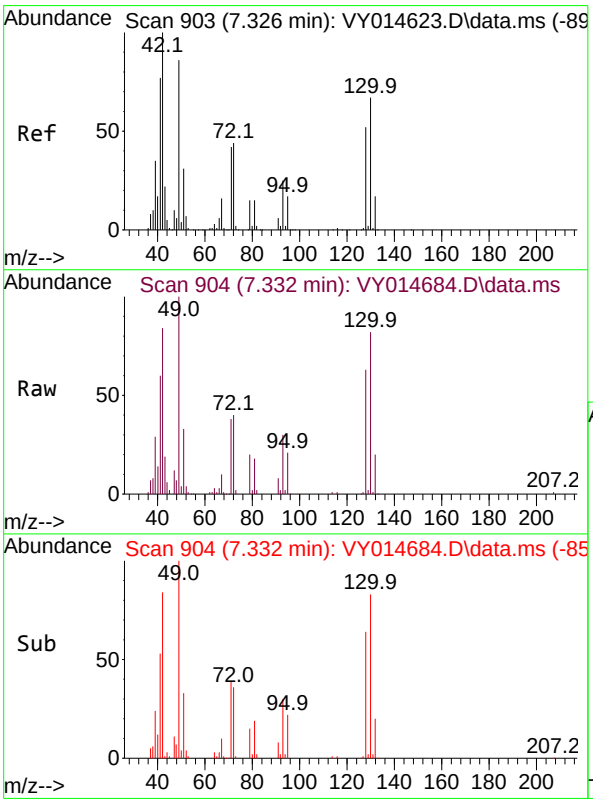
Ion	Ratio	Lower	Upper
96	100		
61	139.5	0.0	301.4
98	64.1	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

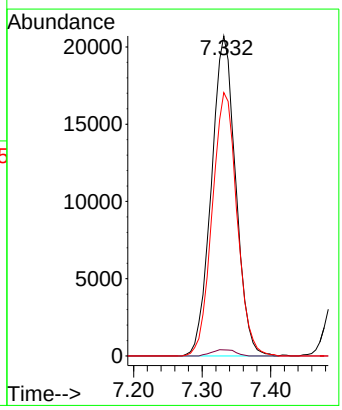


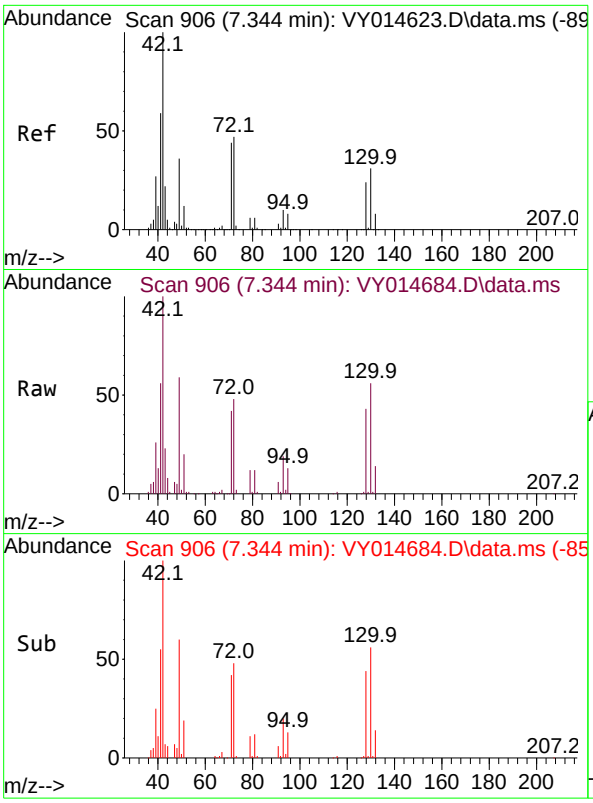


#28
Bromochloromethane
Concen: 29.003 ug/l
RT: 7.332 min Scan# 904
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 49 Resp: 50980

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	83.9	60.7	91.1

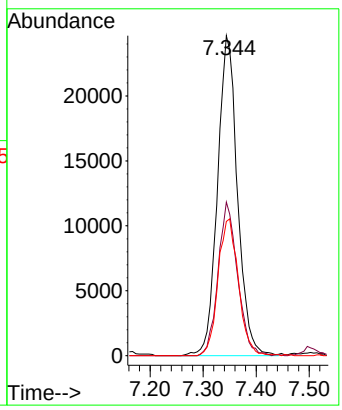




#29
Tetrahydrofuran
Concen: 98.844 ug/l
RT: 7.344 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 42 Resp: 6451

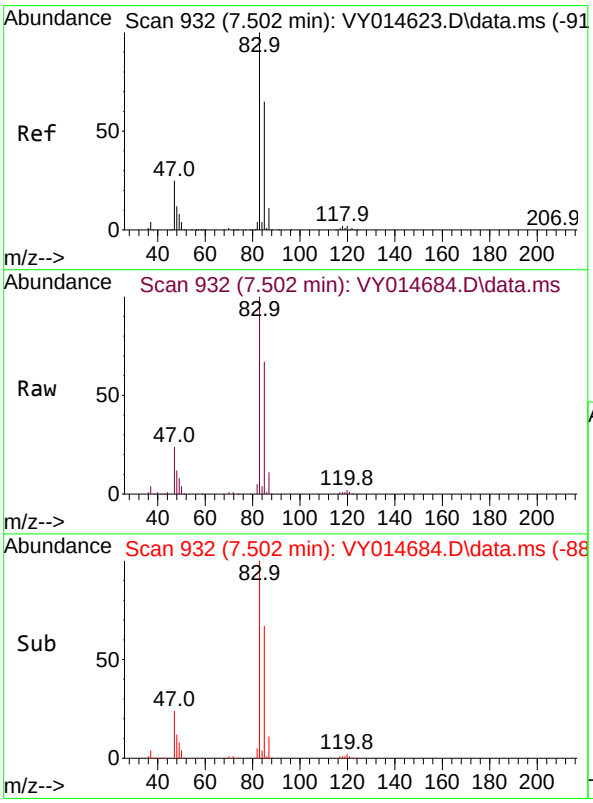
Ion	Ratio	Lower	Upper
42	100		
72	46.6	32.8	49.2
71	43.7	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

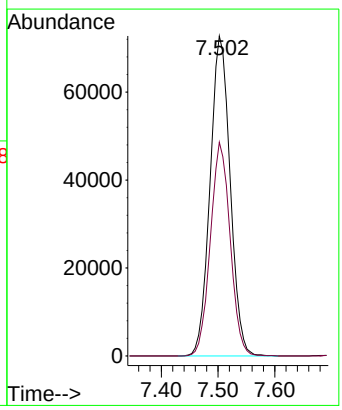
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

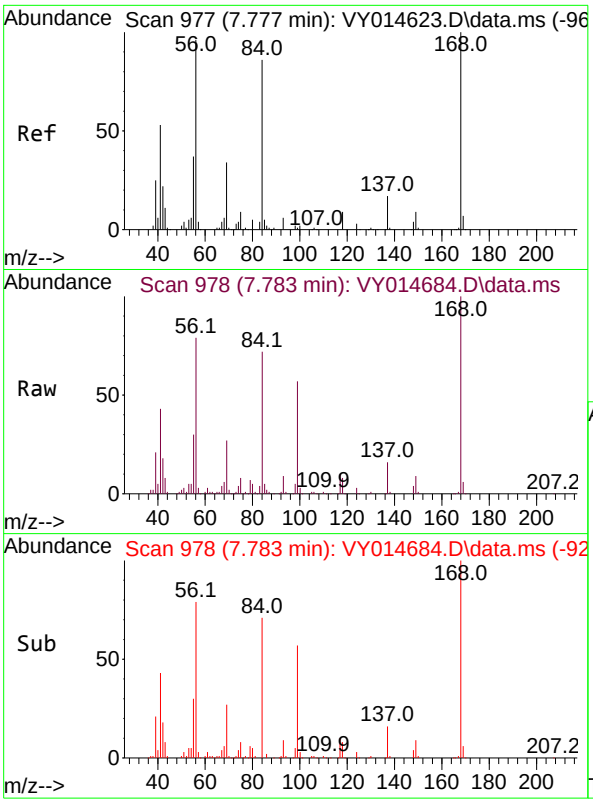


#30
Chloroform
Concen: 42.452 ug/l
RT: 7.502 min Scan# 932
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 83 Resp: 178667

Ion	Ratio	Lower	Upper
83	100		
85	66.8	49.7	74.5





#31
Cyclohexane
Concen: 45.438 ug/l
RT: 7.783 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

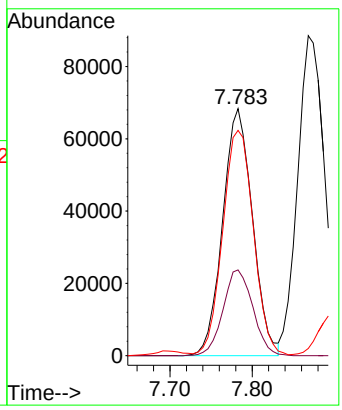
Tgt Ion: 56 Resp: 17247

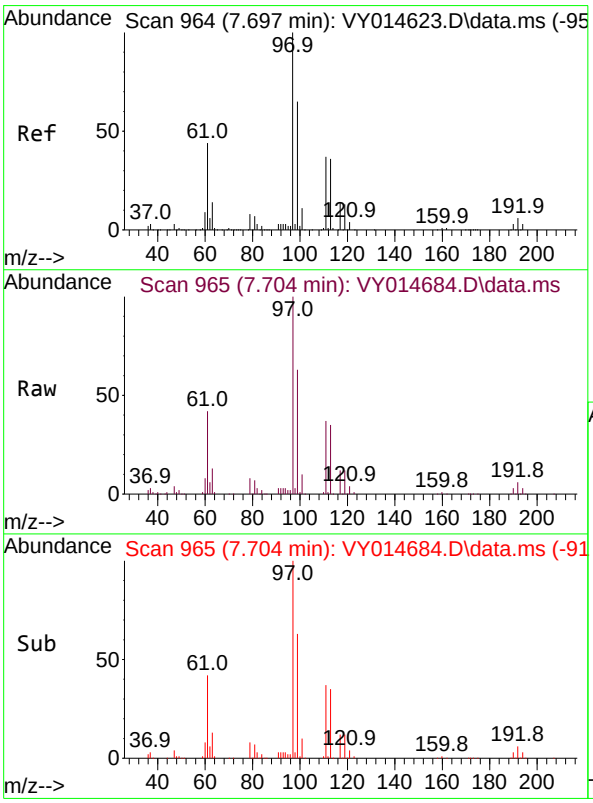
Ion	Ratio	Lower	Upper
56	100		
69	34.7	27.8	41.6
84	89.7	66.4	99.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

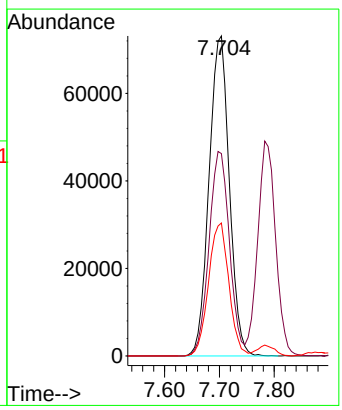


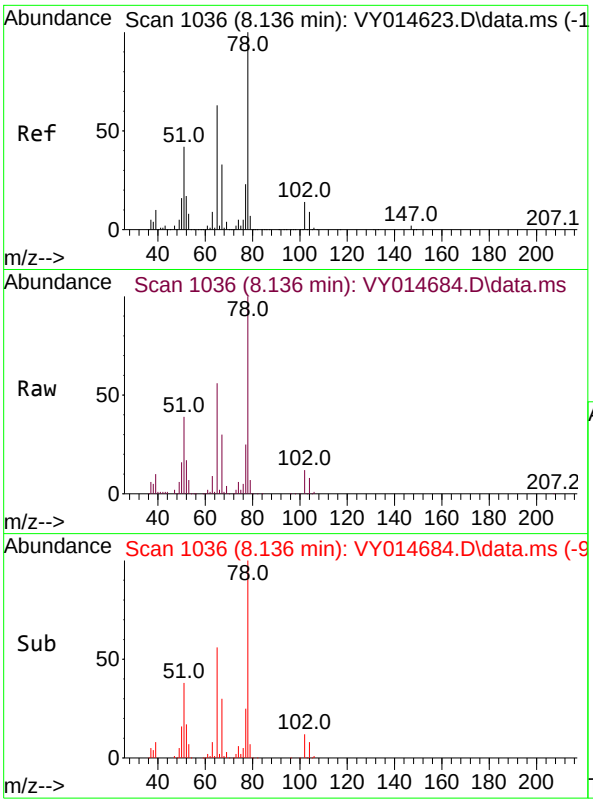


#32
1,1,1-Trichloroethane
Concen: 49.487 ug/l
RT: 7.704 min Scan# 965
Delta R.T. 0.007 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 97 Resp: 187454

Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.8	76.2
61	41.9	35.1	52.7

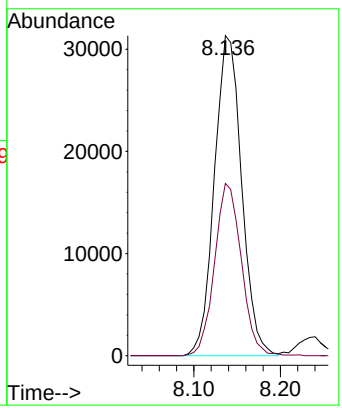




#33
1,2-Dichloroethane-d4
Concen: 29.927 ug/l
RT: 8.136 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 65 Resp: 6843

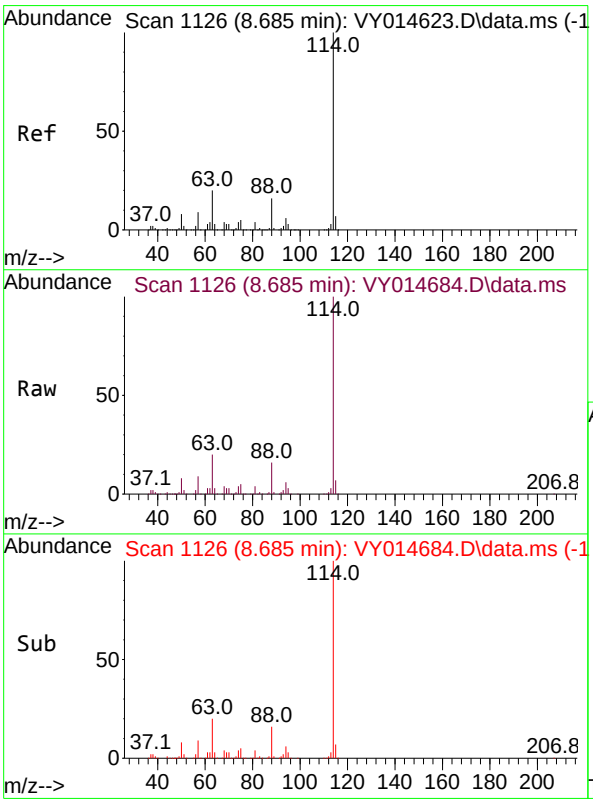
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

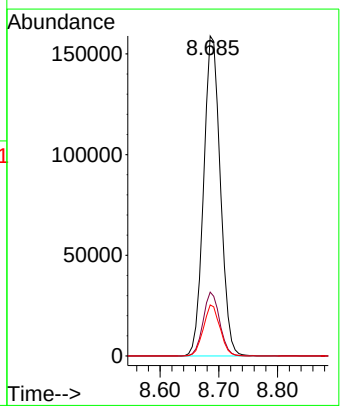
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

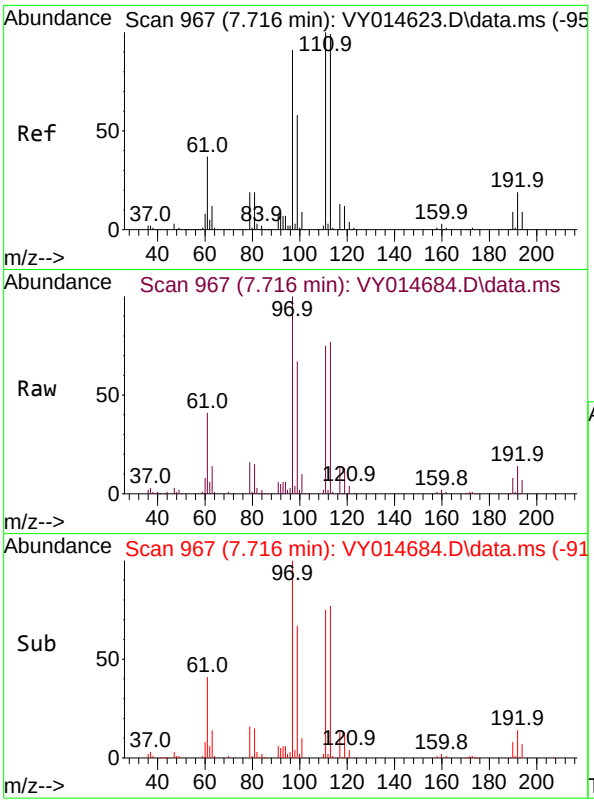


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:114 Resp: 314084

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.4
88	16.0	0.0	30.6

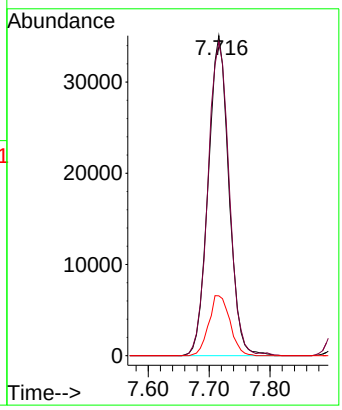




#35
Dibromofluoromethane
Concen: 41.291 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:113 Resp: 8255

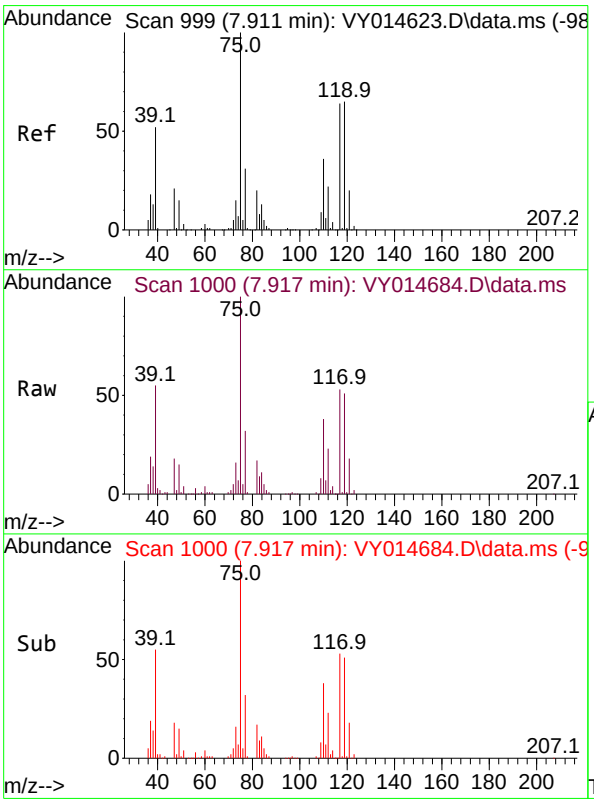
Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.3	121.9
192	19.3	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

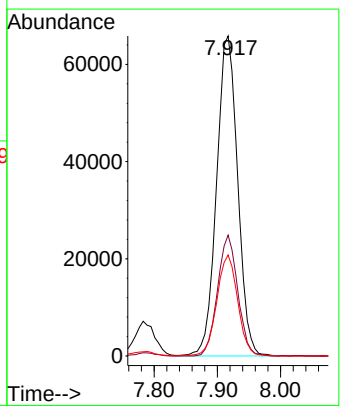
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

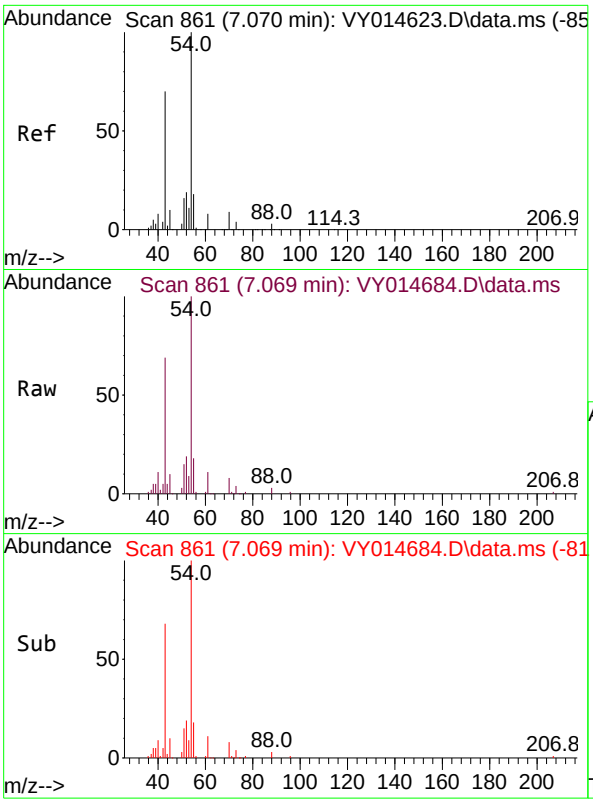


#36
1,1-Dichloropropene
Concen: 50.893 ug/l
RT: 7.917 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 75 Resp: 152170

Ion	Ratio	Lower	Upper
75	100		
110	36.1	17.8	53.5
77	31.3	24.4	36.6





#37
Ethyl Acetate
Concen: 15.908 ug/l
RT: 7.069 min Scan# 8
Delta R.T. -0.001 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

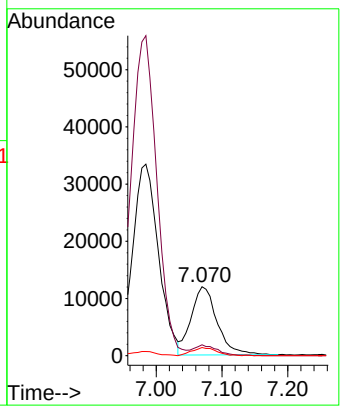
Tgt Ion: 43 Resp: 3274

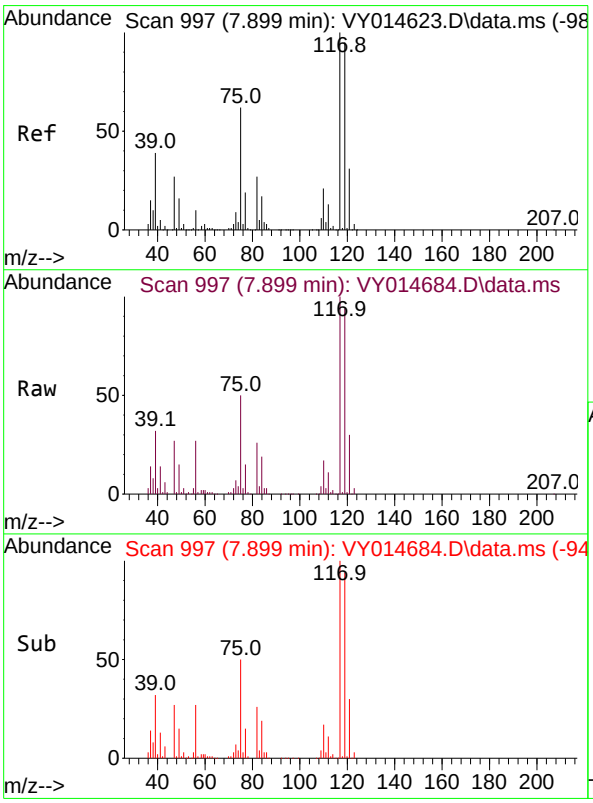
Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.1	15.1
70	11.1	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

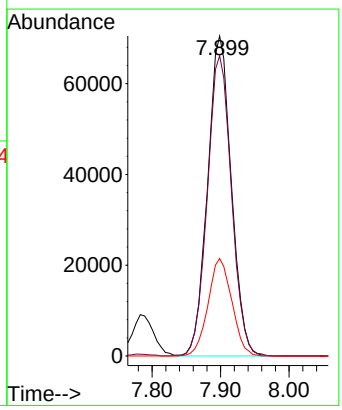


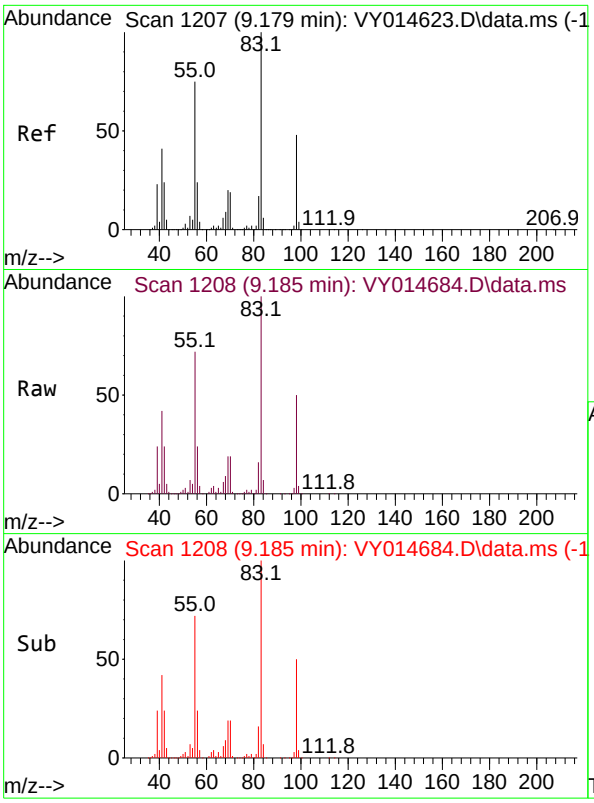


#38
Carbon Tetrachloride
Concen: 53.558 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:117 Resp: 169282

Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.4	114.6
121	30.5	25.8	38.6





#39
Methylcyclohexane
Concen: 49.157 ug/l
RT: 9.185 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

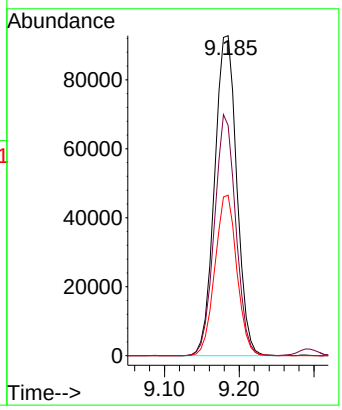
Tgt Ion: 83 Resp: 19148

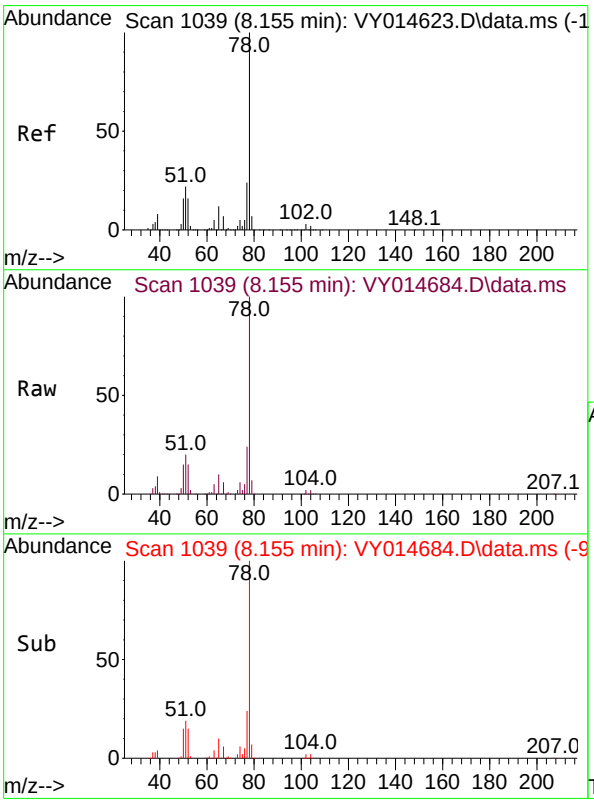
Ion	Ratio	Lower	Upper
83	100		
55	71.9	63.0	94.4
98	50.1	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

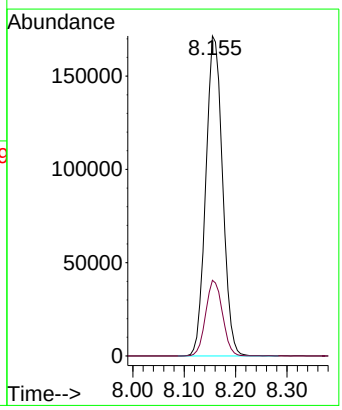


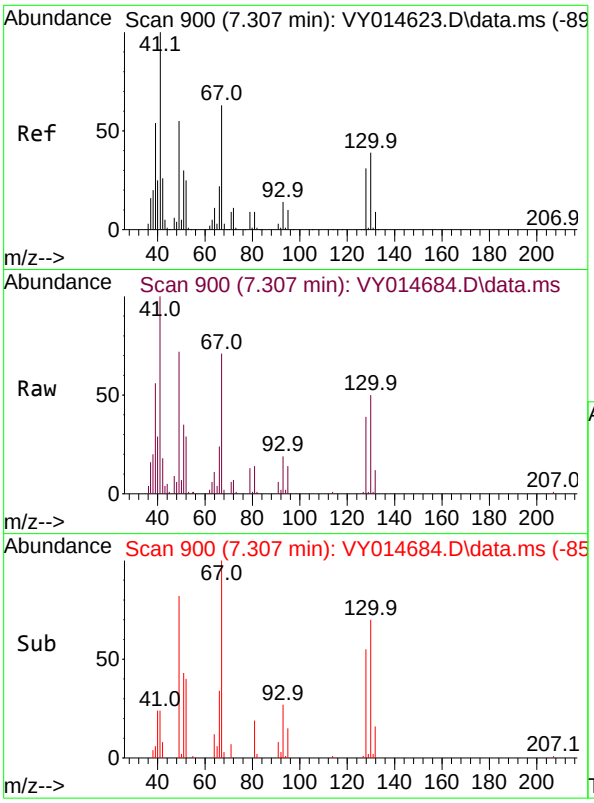


#40
Benzene
Concen: 45.708 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 78 Resp: 388686

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

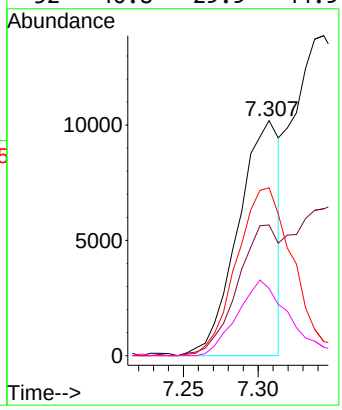




#41
Methacrylonitrile
Concen: 18.597 ug/l
RT: 7.307 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 41 Resp: 1969

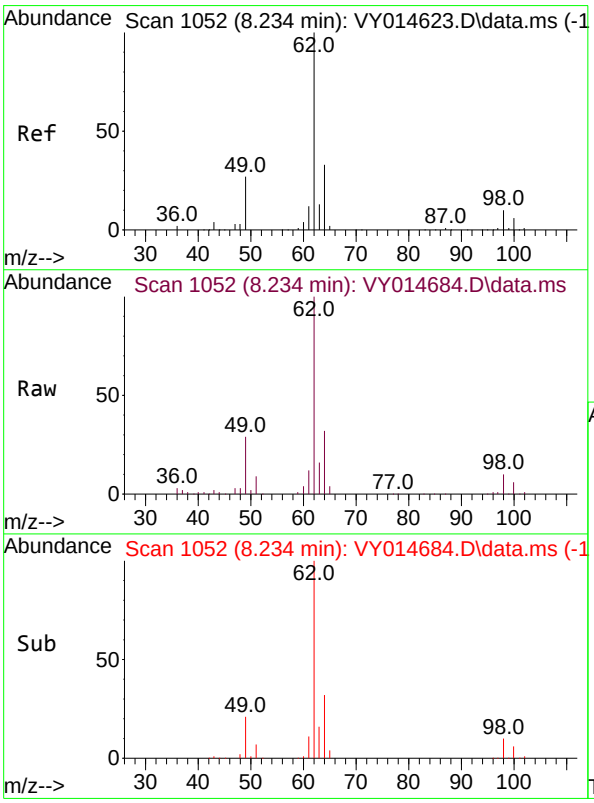
Ion	Ratio	Lower	Upper
41	100		
39	55.5	52.1	78.1
67	98.1	66.2	99.2
52	40.8	29.9	44.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

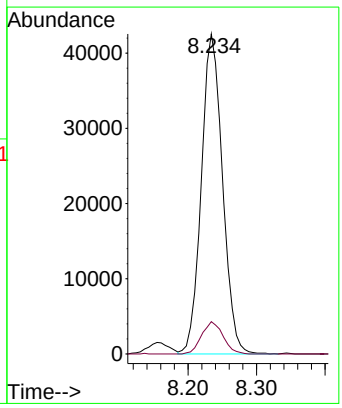
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

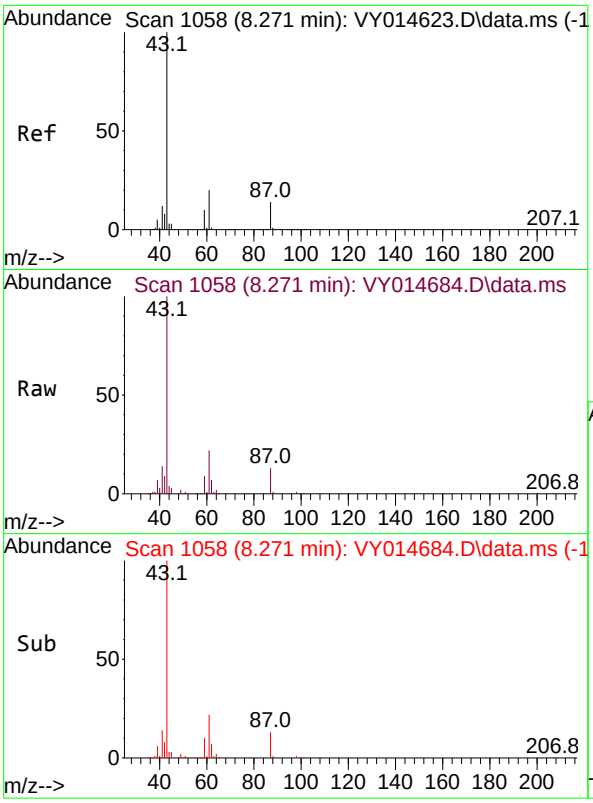


#42
1,2-Dichloroethane
Concen: 34.025 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 62 Resp: 91626

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	15.8





#43
Isopropyl Acetate
Concen: 20.318 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

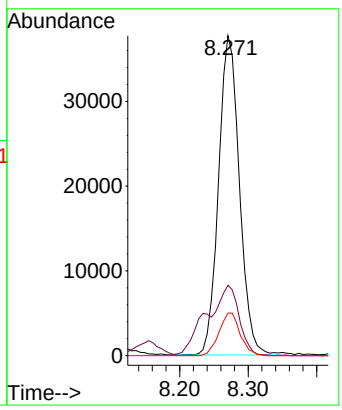
Tgt Ion: 43 Resp: 7967

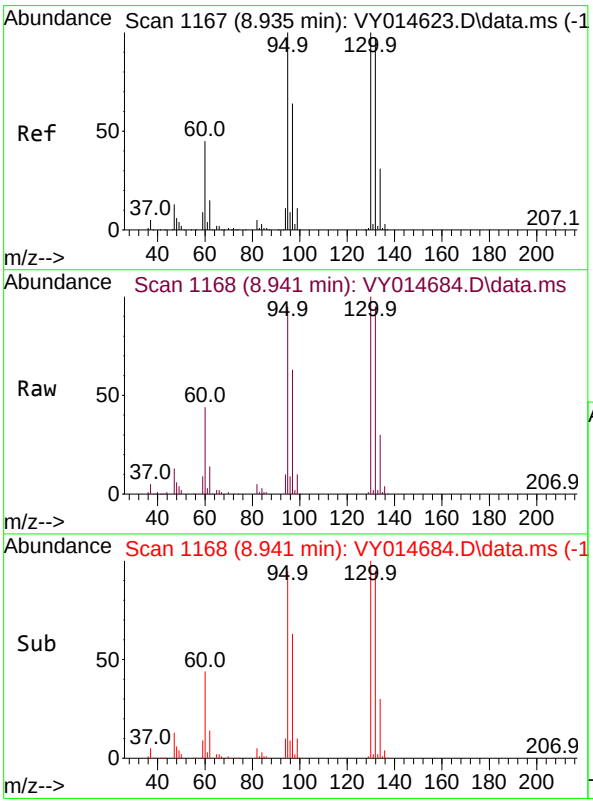
Ion	Ratio	Lower	Upper
43	100		
61	34.2	21.1	31.7
87	13.5	9.8	14.8

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

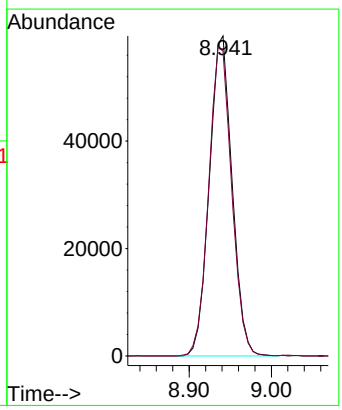


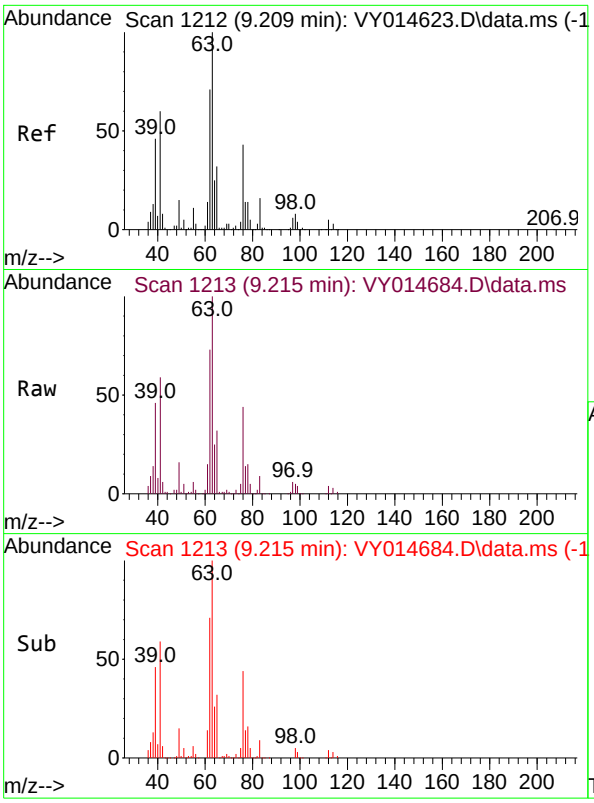


#44
Trichloroethene
Concen: 48.073 ug/l
RT: 8.941 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:130 Resp: 114378

Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	196.0

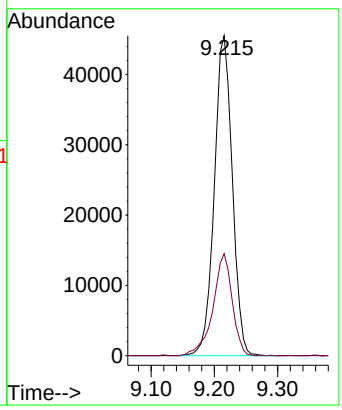




#45
1,2-Dichloropropane
Concen: 40.475 ug/l
RT: 9.215 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 63 Resp: 8987

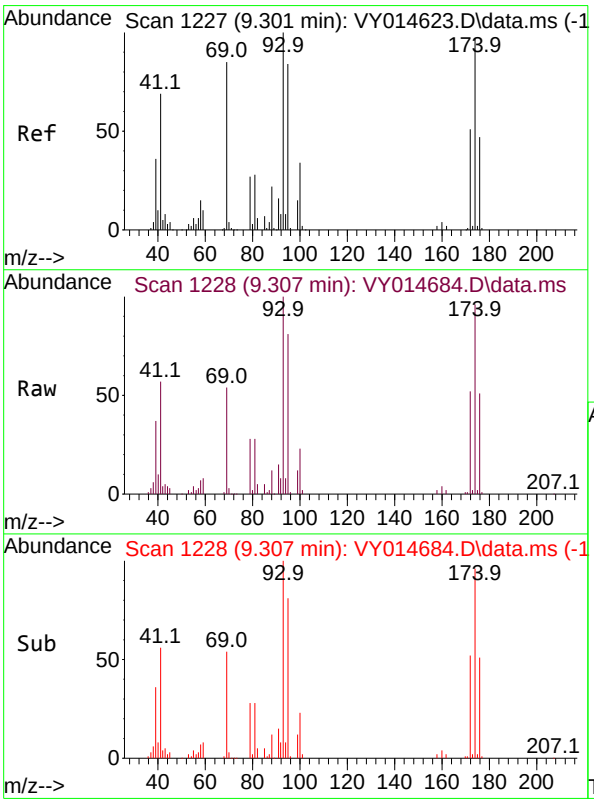
Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

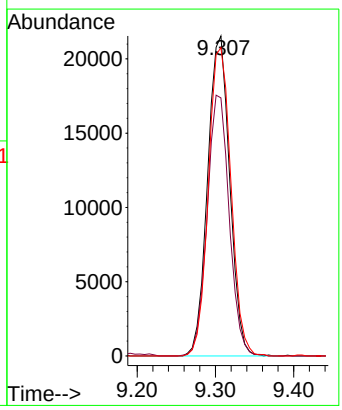
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

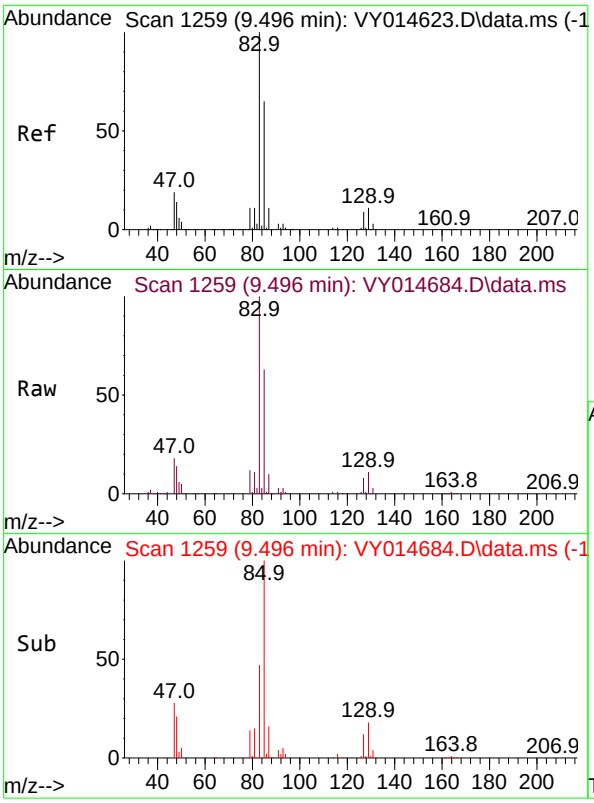


#46
Dibromomethane
Concen: 31.289 ug/l
RT: 9.307 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 93 Resp: 42149

Ion	Ratio	Lower	Upper
93	100		
95	81.5	66.6	100.0
174	98.7	84.8	127.2

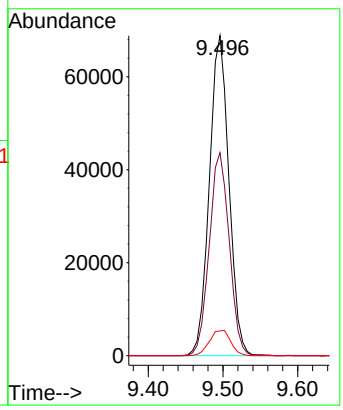




#47
Bromodichloromethane
Concen: 39.470 ug/l
RT: 9.496 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 83 Resp: 12531

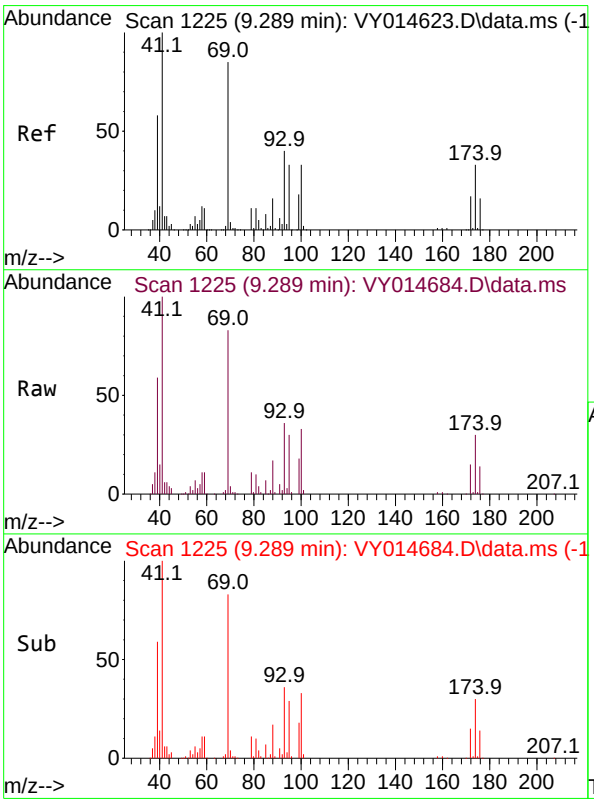
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.1	75.1
127	7.8	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

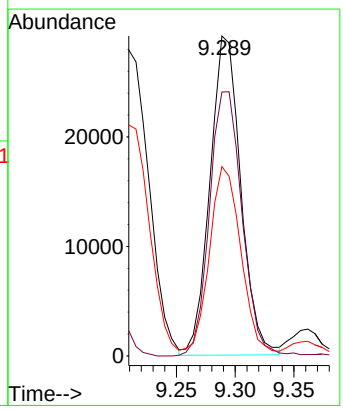
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

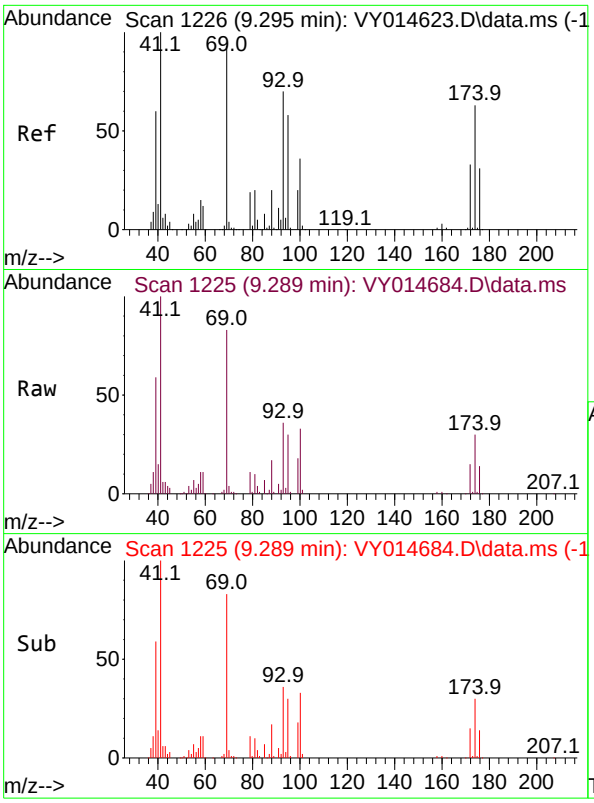


#48
Methyl methacrylate
Concen: 30.171 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 41 Resp: 53239

Ion	Ratio	Lower	Upper
41	100		
69	87.3	64.5	96.7
39	57.8	50.8	76.2





#49
1,4-Dioxane
Concen: 451.574 ug/l
RT: 9.289 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

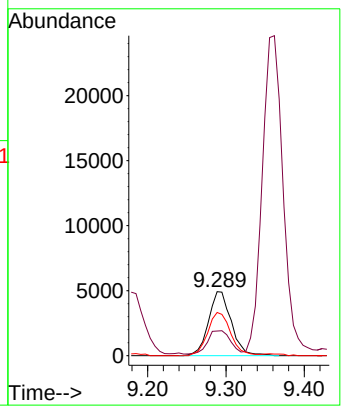
Tgt Ion: 88 Resp: 991

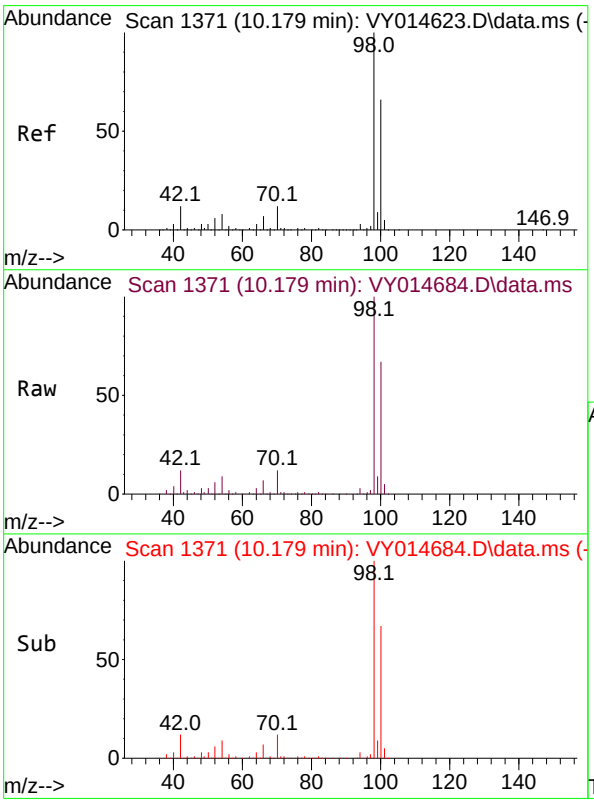
Ion	Ratio	Lower	Upper
88	100		
43	35.8	0.0	0.0#
58	68.3	30.9	46.3#

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

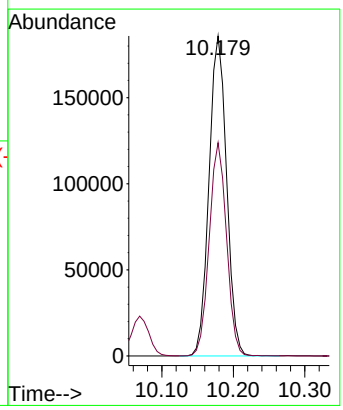


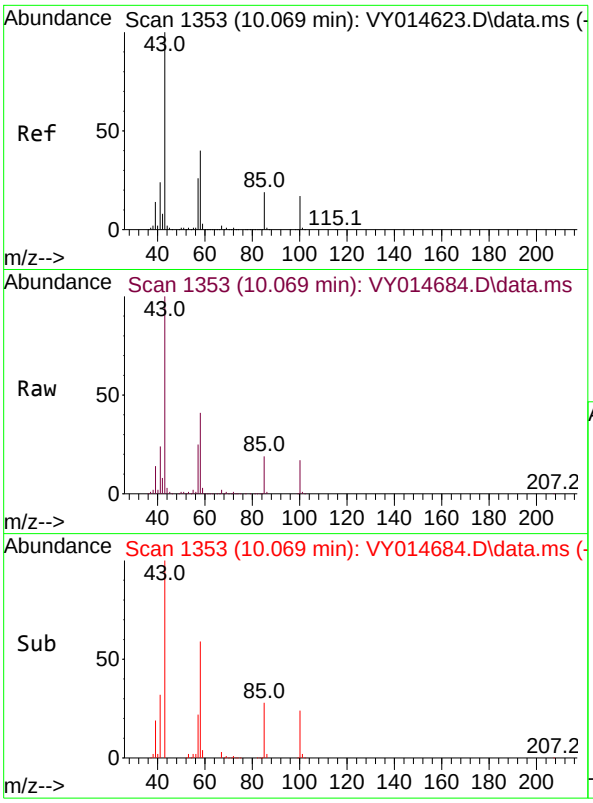


#50
Toluene-d8
Concen: 43.075 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 98 Resp: 317522

Ion	Ratio	Lower	Upper
98	100		
100	65.4	50.1	75.1

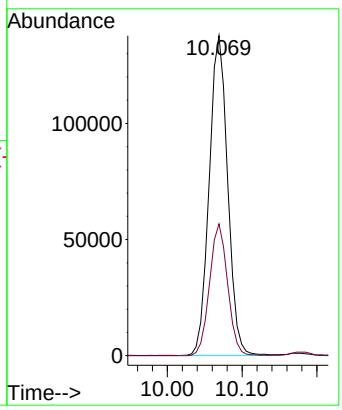




#51
4-Methyl-2-Pentanone
Concen: 115.147 ug/l
RT: 10.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 43 Resp: 23708

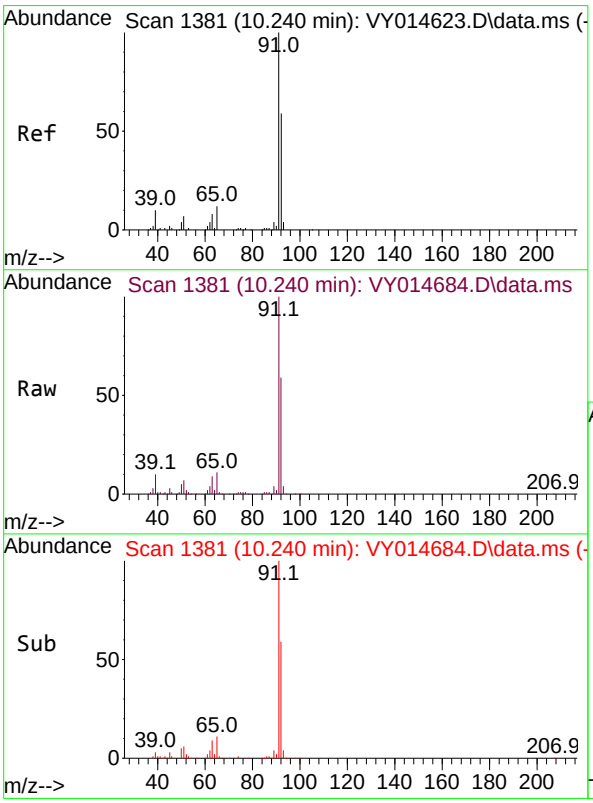
Ion	Ratio	Lower	Upper
43	100		
58	40.3	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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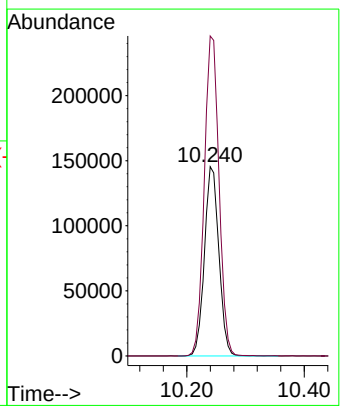
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

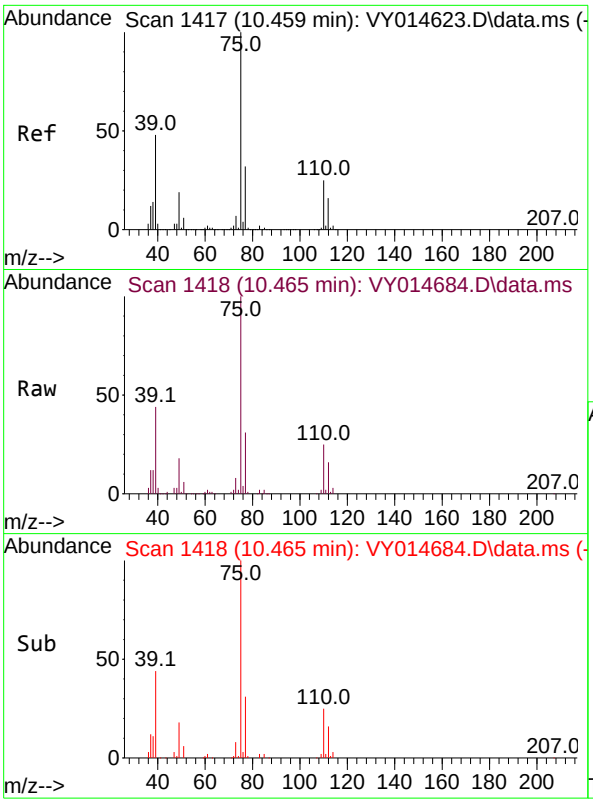


#52
Toluene
Concen: 45.521 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 92 Resp: 247706

Ion	Ratio	Lower	Upper
92	100		
91	172.4	143.8	215.6





#53
t-1,3-Dichloropropene
Concen: 31.176 ug/l
RT: 10.465 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

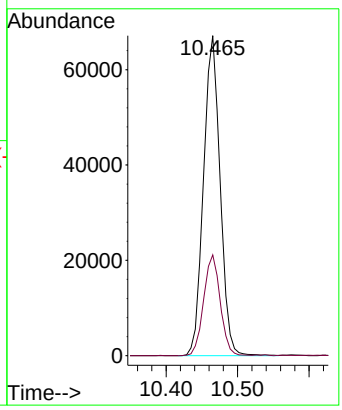
Tgt Ion: 75 Resp: 10827

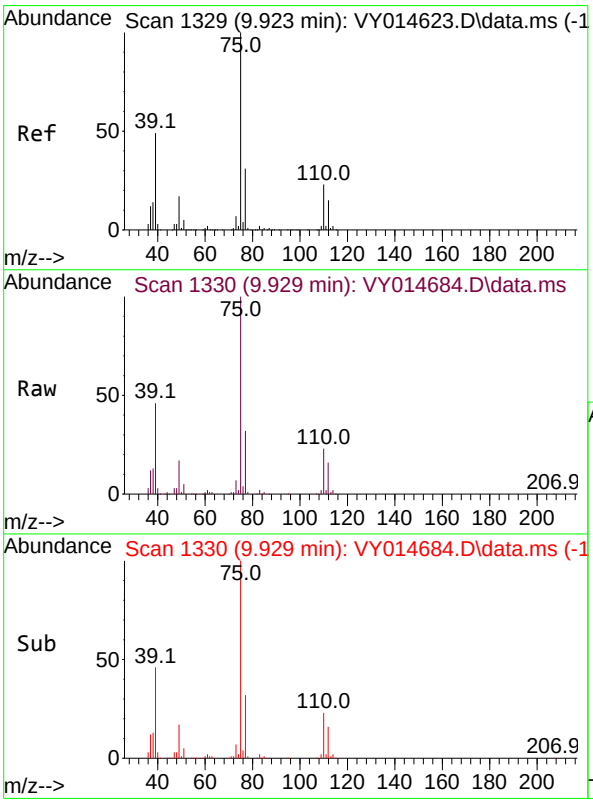
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

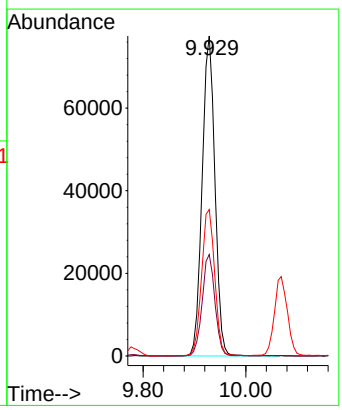


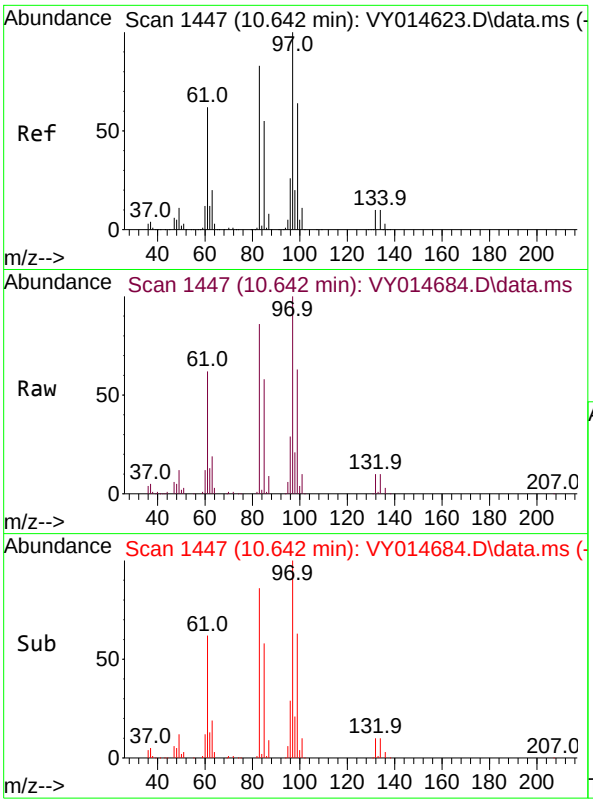


#54
cis-1,3-Dichloropropene
Concen: 35.372 ug/l
RT: 9.929 min Scan# 1330
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 75 Resp: 133585

Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.2	36.4
39	45.6	42.2	63.4

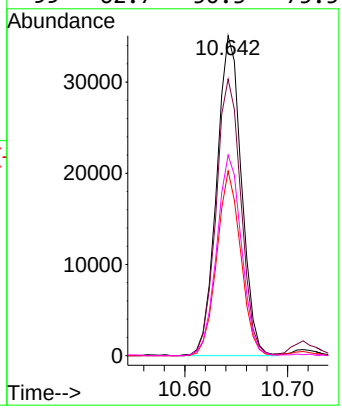




#55
1,1,2-Trichloroethane
Concen: 31.358 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 97 Resp: 5884

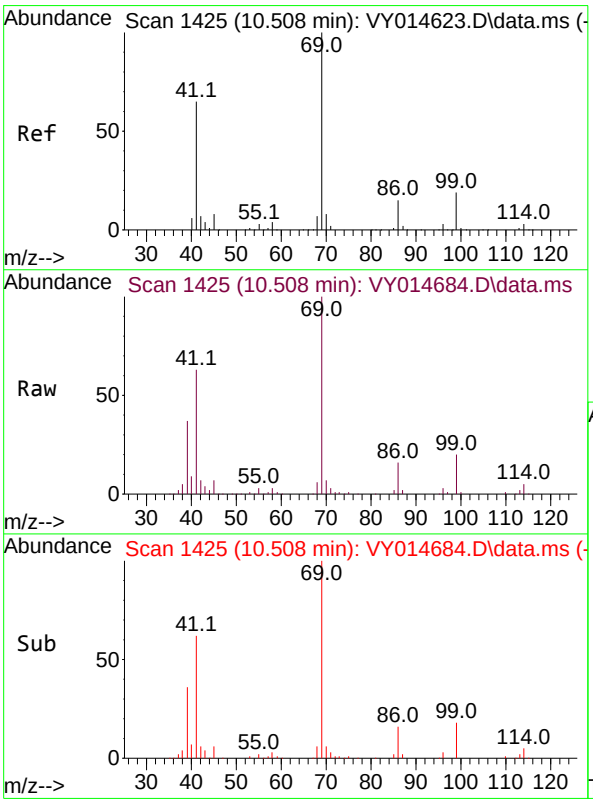
Ion	Ratio	Lower	Upper
97	100		
83	86.4	72.0	108.0
85	57.7	45.4	68.0
99	62.7	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

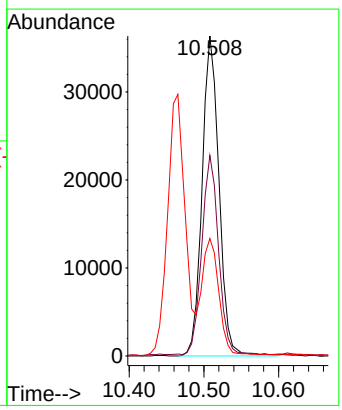
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

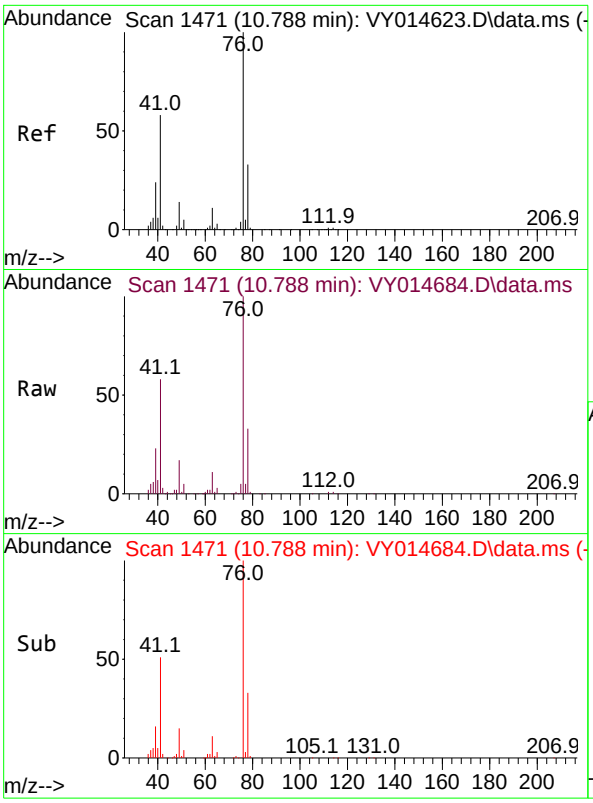


#56
Ethyl methacrylate
Concen: 19.949 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 69 Resp: 57154

Ion	Ratio	Lower	Upper
69	100		
41	61.6	57.6	86.4
39	35.8	34.1	51.1





#57
1,3-Dichloropropane
Concen: 31.779 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

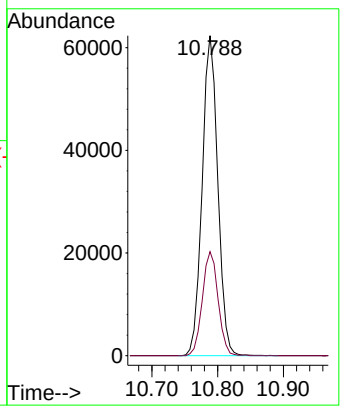
Tgt Ion: 76 Resp: 10285

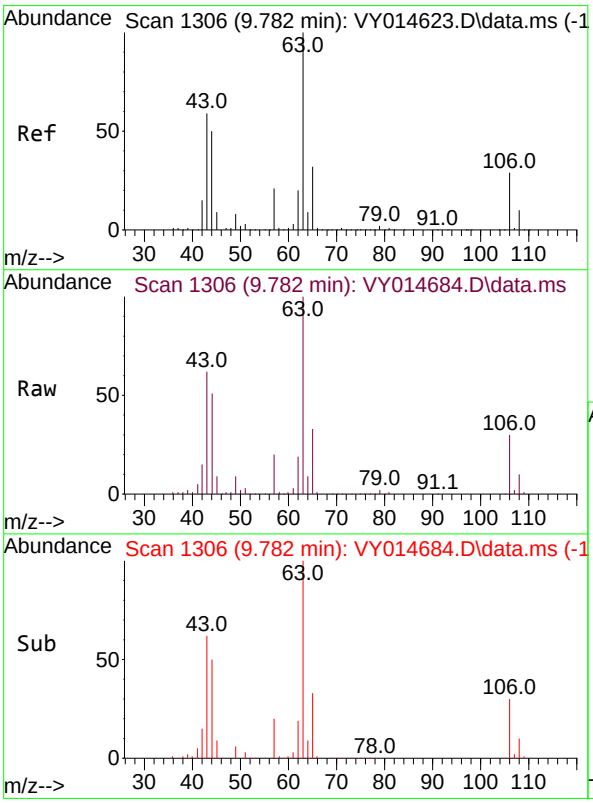
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

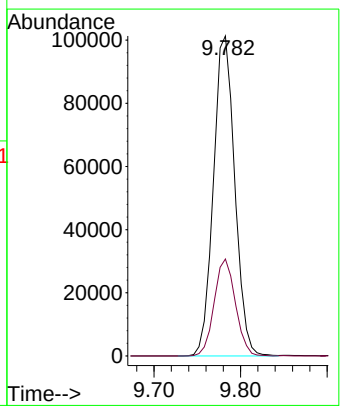


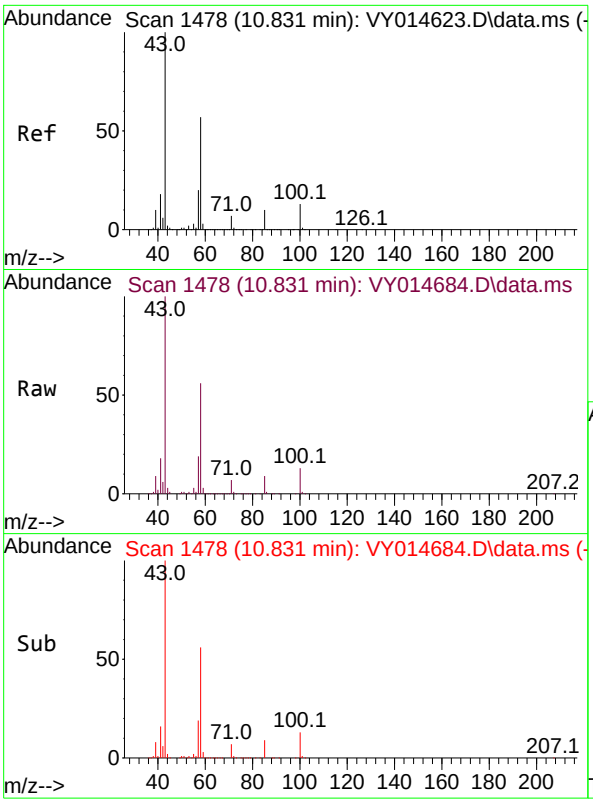


#58
2-Chloroethyl Vinyl ether
Concen: 130.054 ug/l
RT: 9.782 min Scan# 1306
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 63 Resp: 173613

Ion	Ratio	Lower	Upper
63	100		
106	30.1	21.2	31.8





#59
2-Hexanone
Concen: 100.266 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

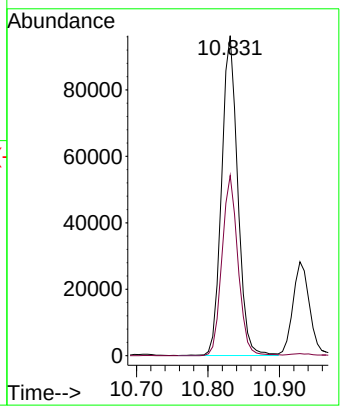
Tgt Ion: 43 Resp: 150549

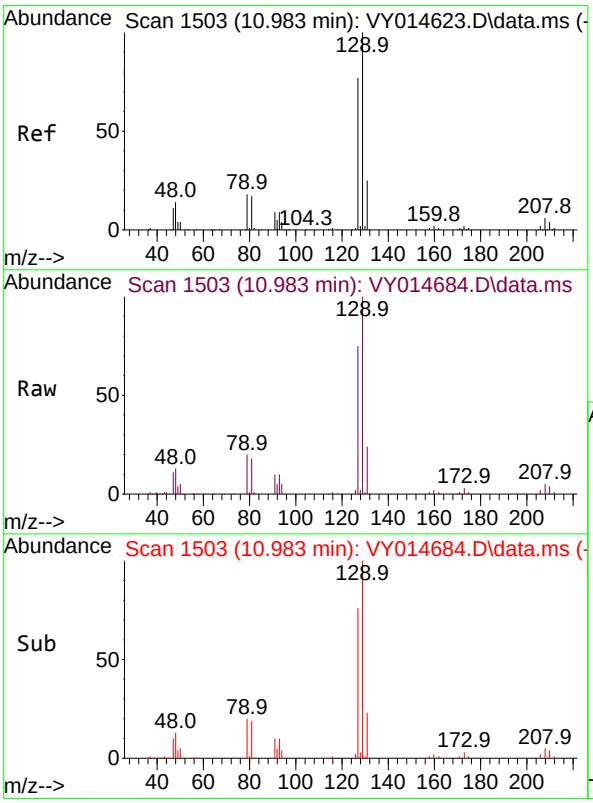
Ion	Ratio	Lower	Upper
43	100		
58	56.0	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

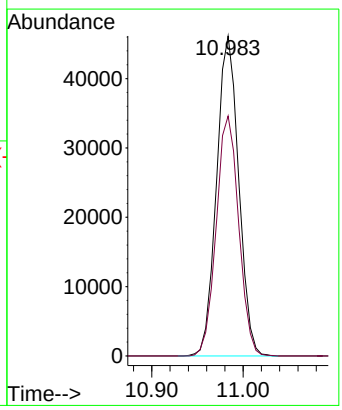


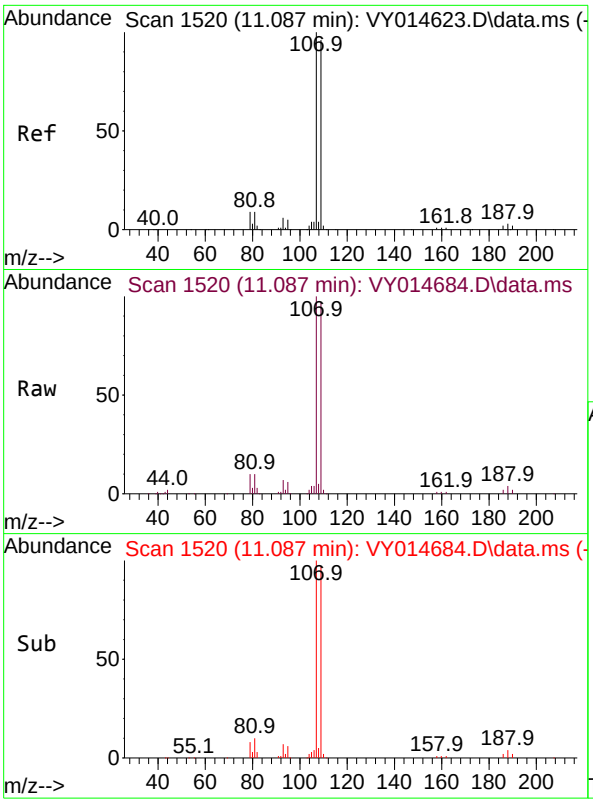


#60
Dibromochloromethane
Concen: 33.711 ug/l
RT: 10.983 min Scan# 1503
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:129 Resp: 77556

Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.5	115.5





#61
1,2-Dibromoethane
Concen: 28.699 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

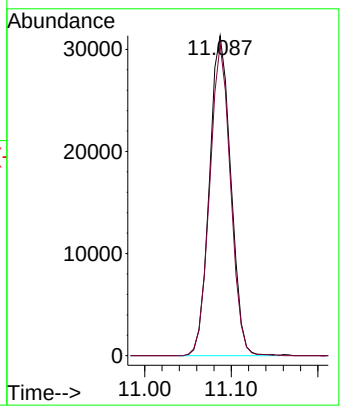
Tgt Ion:107 Resp: 5372

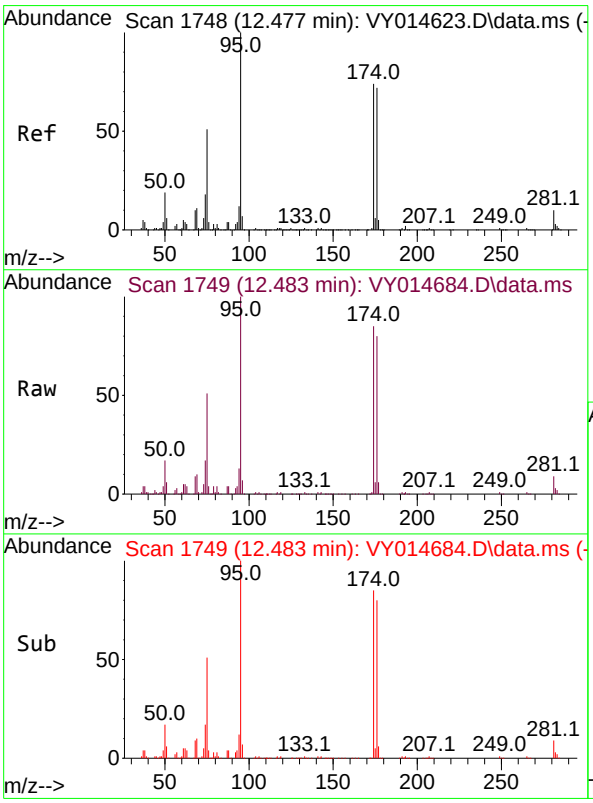
Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

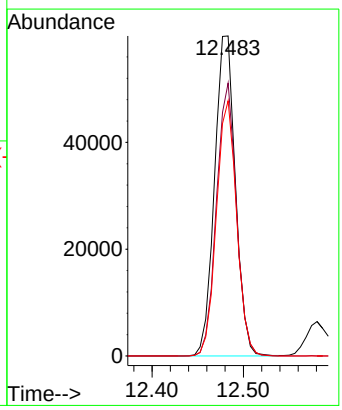


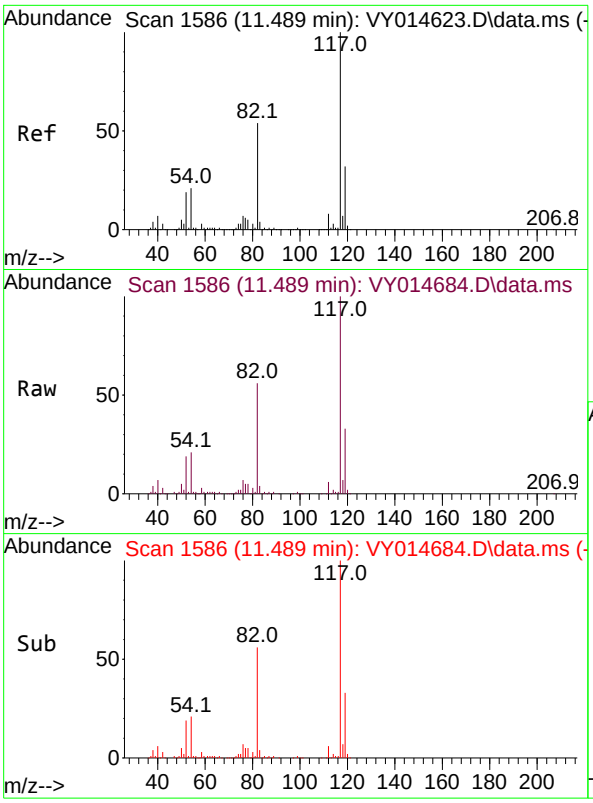


#62
4-Bromofluorobenzene
Concen: 33.726 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 95 Resp: 95323

Ion	Ratio	Lower	Upper
95	100		
174	81.2	0.0	178.2
176	77.0	0.0	173.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

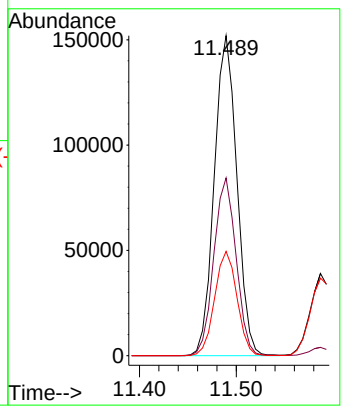
Tgt Ion:117 Resp: 24603

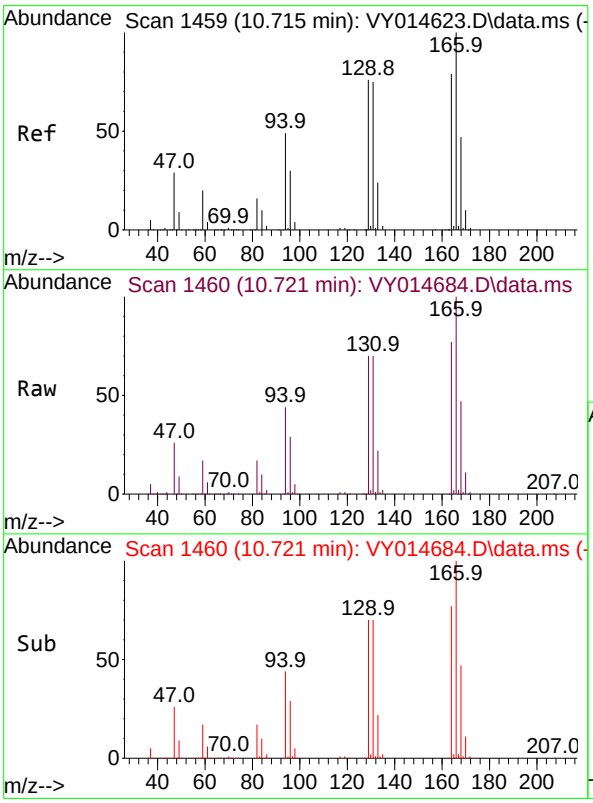
Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.6	26.3	39.5

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

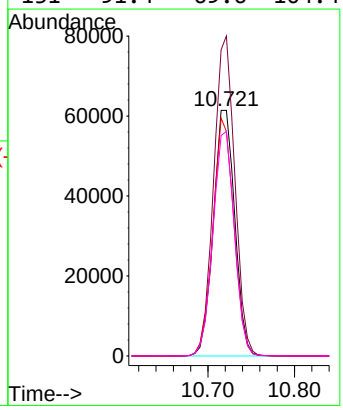


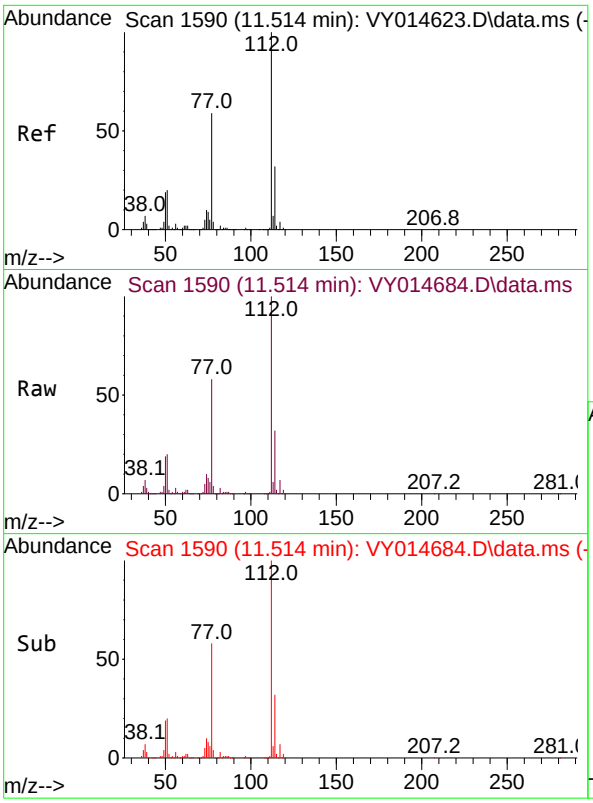


#64
Tetrachloroethene
Concen: 53.314 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:164 Resp: 105495

Ion	Ratio	Lower	Upper
164	100		
166	130.3	103.0	154.6
129	91.4	77.2	115.8
131	91.4	69.6	104.4





#65
Chlorobenzene
Concen: 46.814 ug/l
RT: 11.514 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

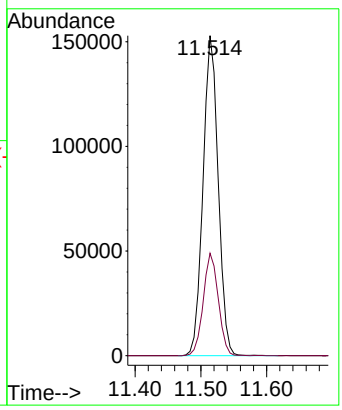
Tgt Ion:112 Resp: 24543

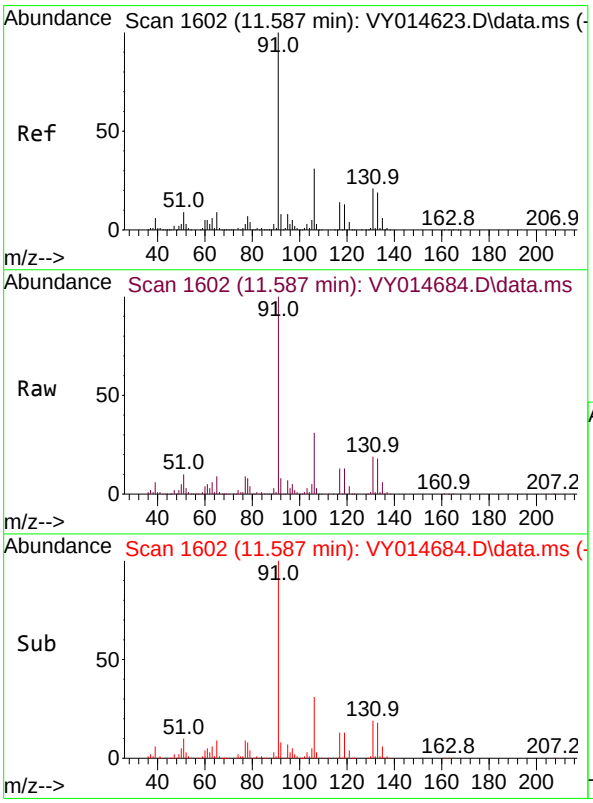
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

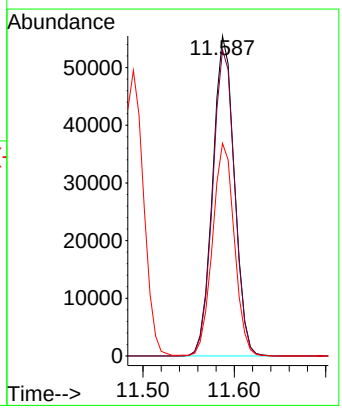


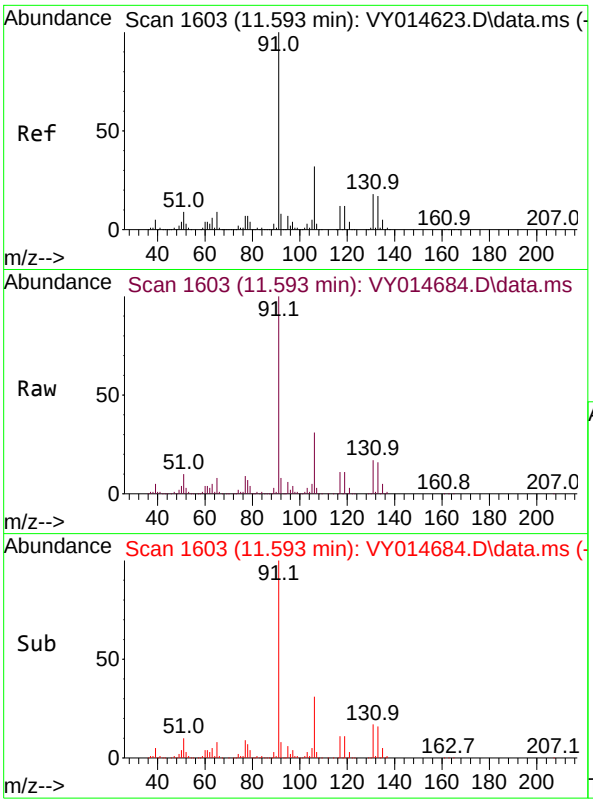


#66
1,1,1,2-Tetrachloroethane
Concen: 46.310 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:131 Resp: 91545

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.5	142.6
119	66.7	31.6	94.7

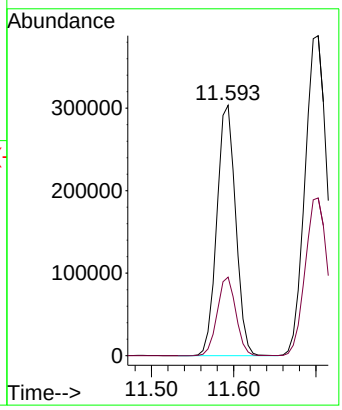




#67
Ethyl Benzene
Concen: 51.032 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 91 Resp: 48307

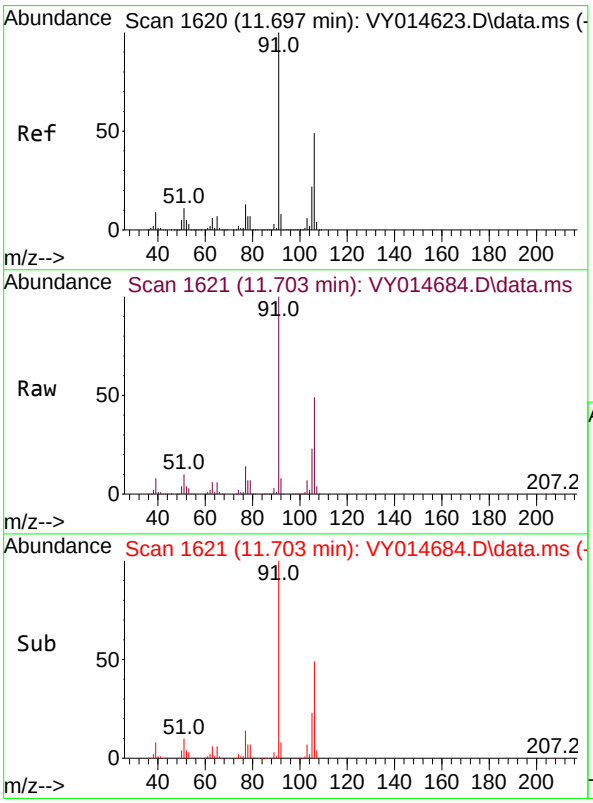
Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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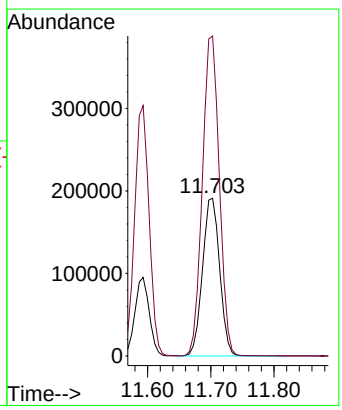
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

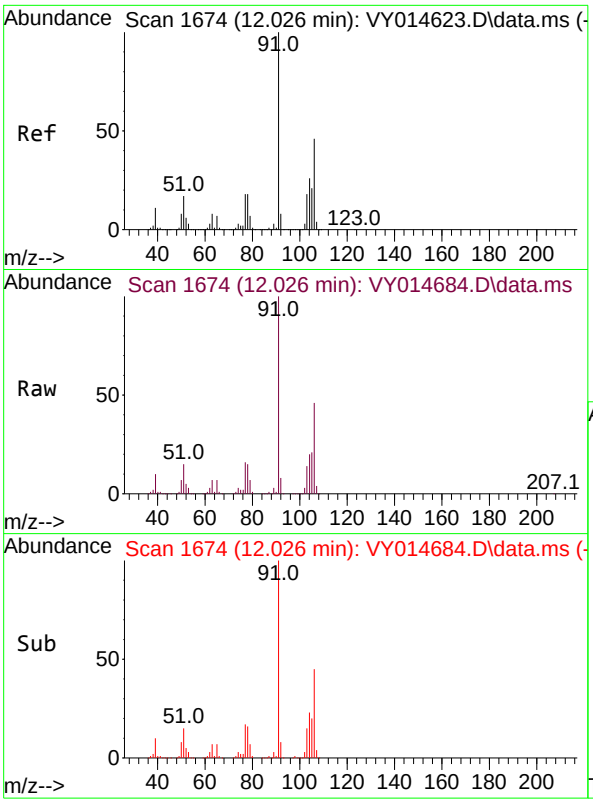


#68
m/p-Xylenes
Concen: 99.645 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:106 Resp: 360060

Ion	Ratio	Lower	Upper
106	100		
91	200.7	166.1	249.1





#69
o-Xylene
Concen: 48.551 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

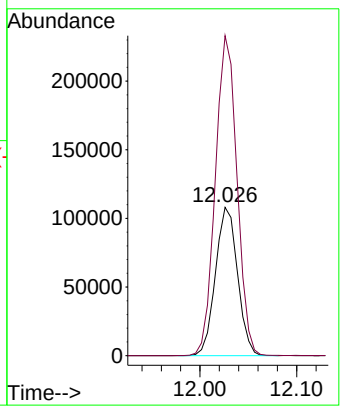
Tgt Ion:106 Resp: 17087

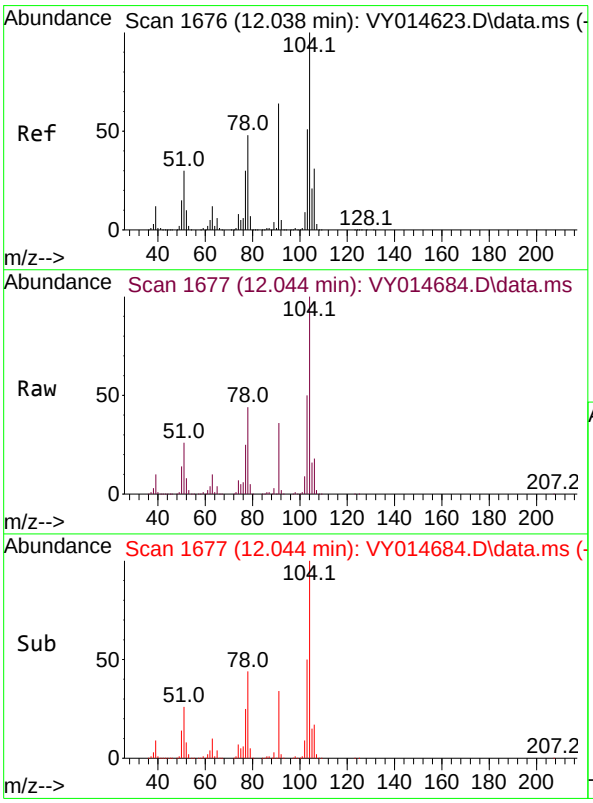
Ion	Ratio	Lower	Upper
106	100		
91	212.2	108.1	324.3

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

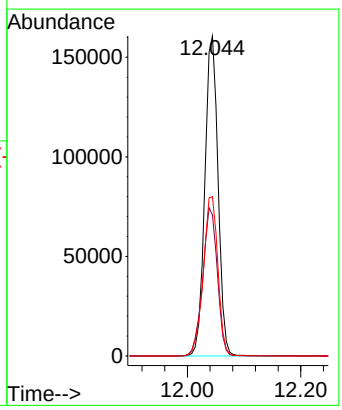


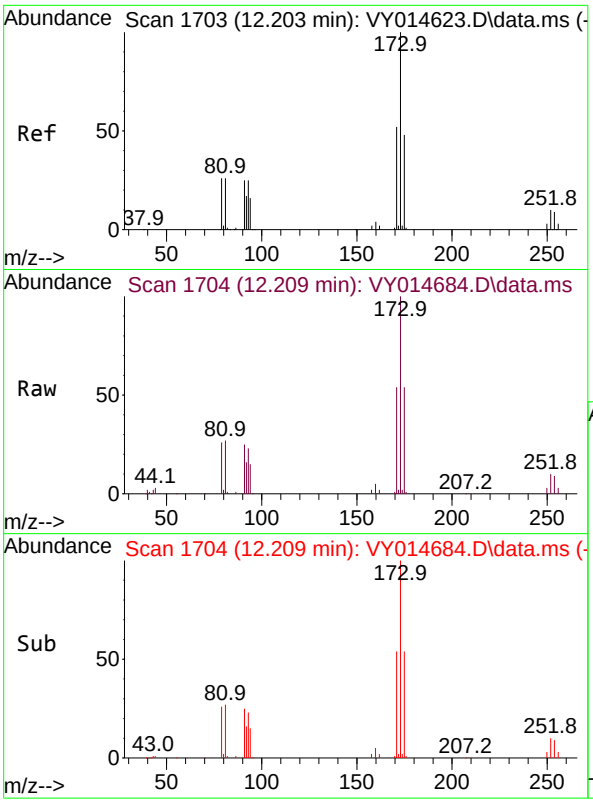


#70
Styrene
Concen: 43.744 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:104 Resp: 259483

Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.5	62.3
103	55.1	44.6	67.0

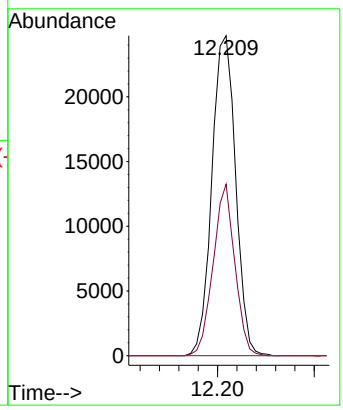




#71
Bromoform
Concen: 31.424 ug/l
RT: 12.209 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

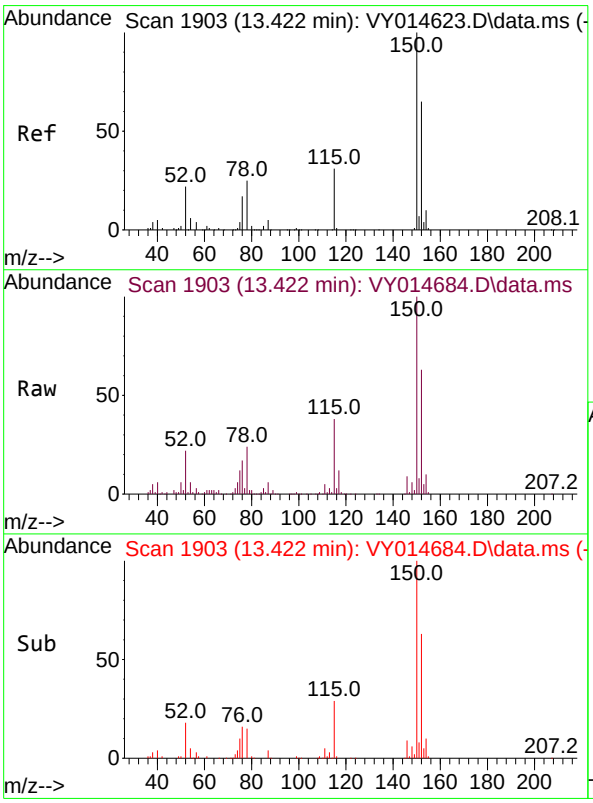
Tgt Ion:173 Resp: 4210

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.6	73.8
254	0.0	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

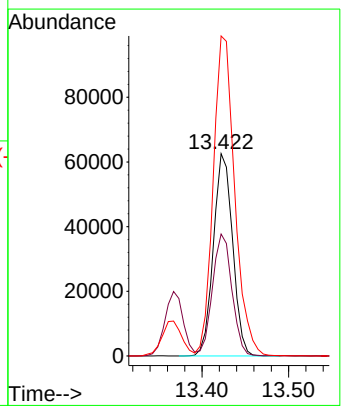
Manual Integrations APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

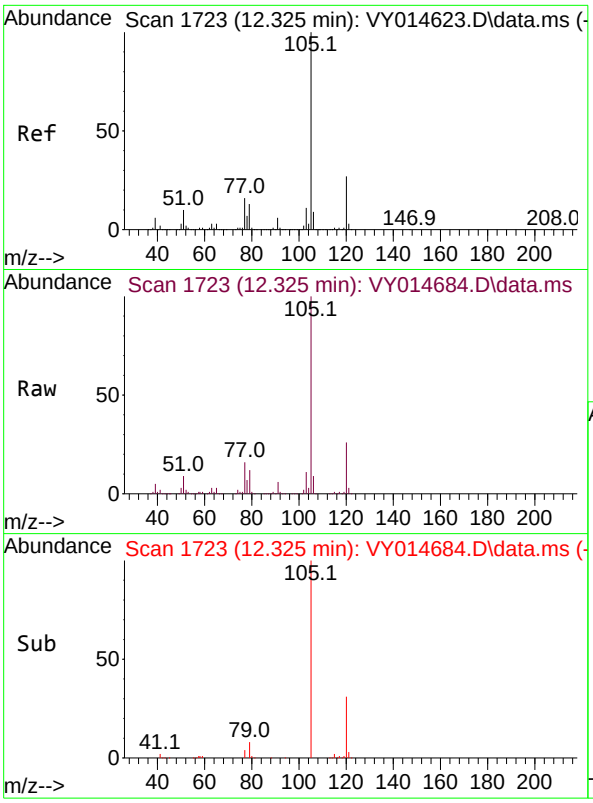


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:152 Resp: 96285

Ion	Ratio	Lower	Upper
152	100		
115	60.8	28.8	86.5
150	177.2	0.0	348.8

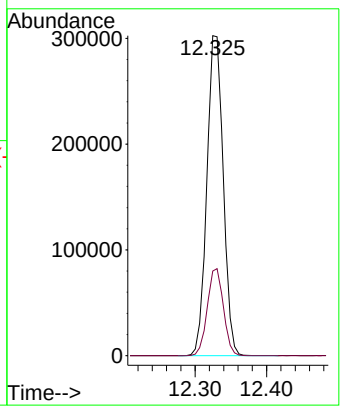




#73
Isopropylbenzene
Concen: 63.624 ug/l
RT: 12.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:105 Resp: 47966

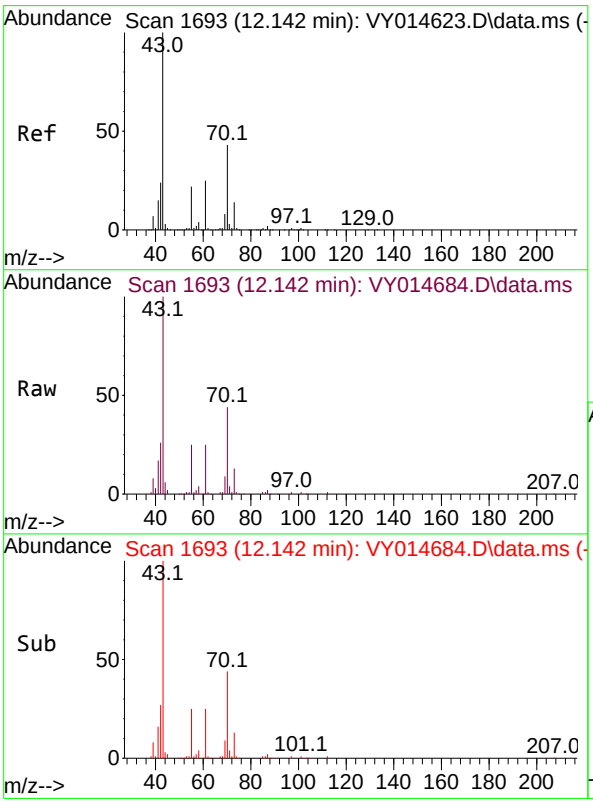
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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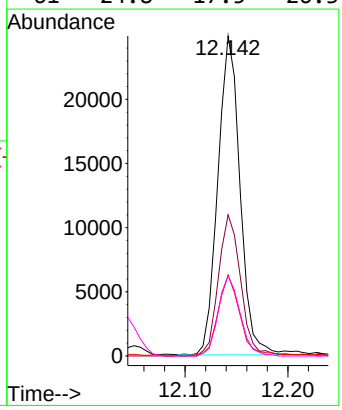
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

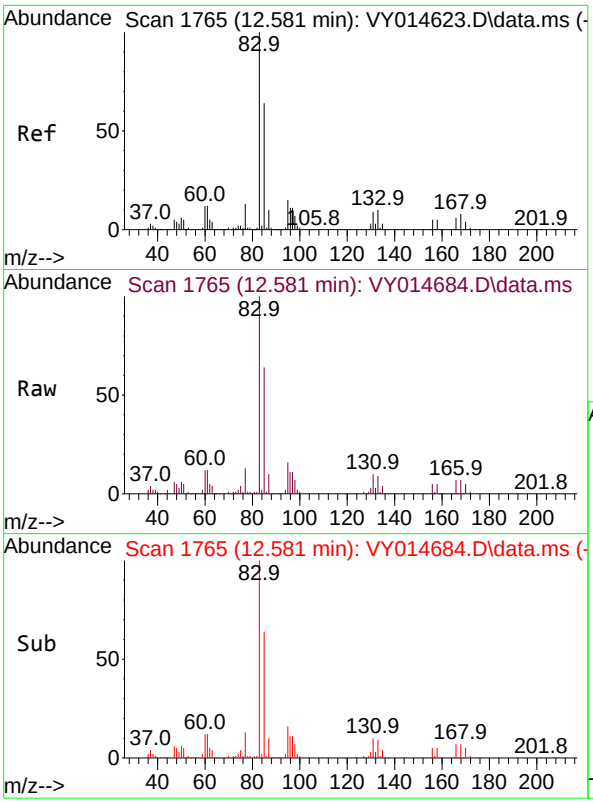


#74
N-amyl acetate
Concen: 14.718 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 43 Resp: 37163

Ion	Ratio	Lower	Upper
43	100		
70	45.0	29.7	44.5#
55	25.3	18.3	27.5
61	24.8	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 36.578 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

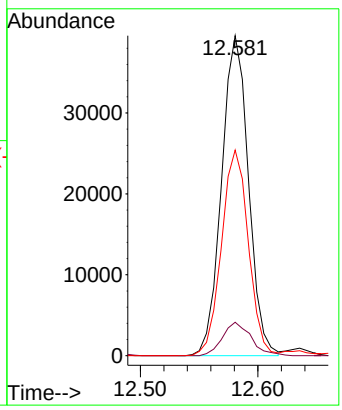
Tgt Ion: 83 Resp: 6288

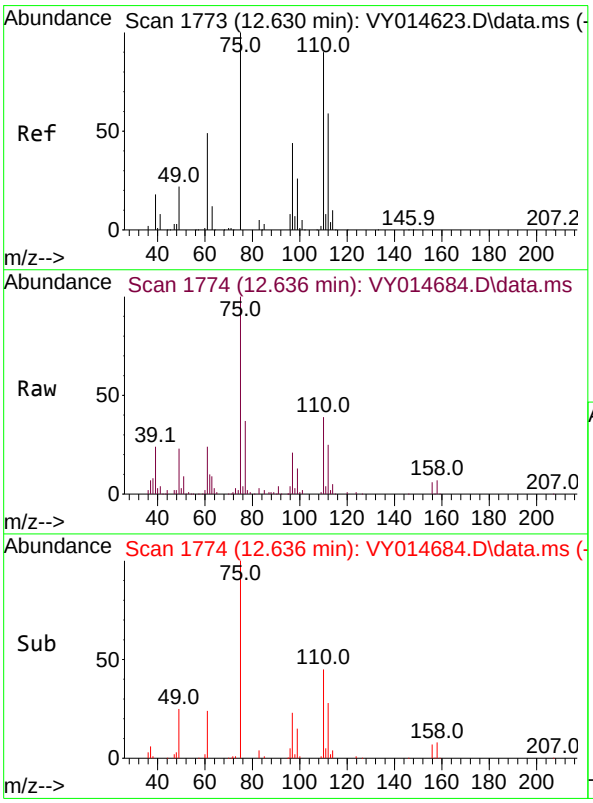
Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.4	16.2
85	64.2	31.8	95.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

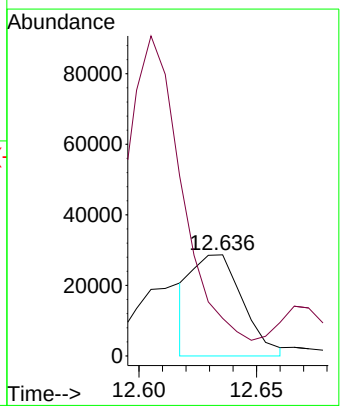


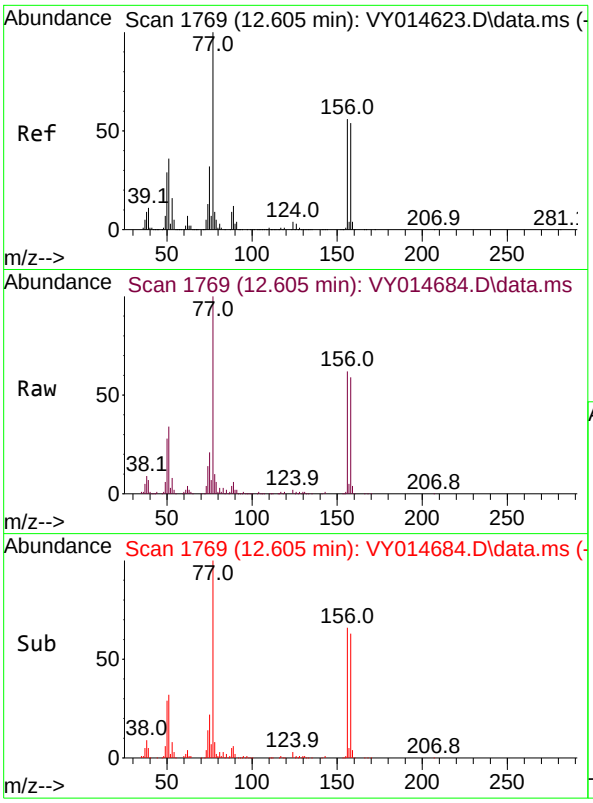


#76
1,2,3-Trichloropropane
Concen: 35.479 ug/l m
RT: 12.636 min Scan# 1774
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 75 Resp: 43144

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

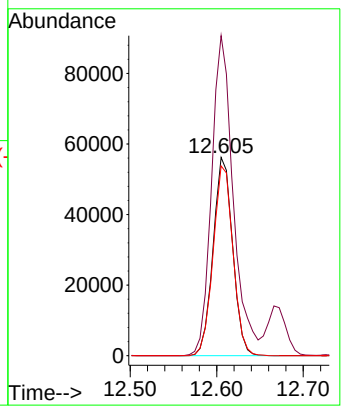




#77
Bromobenzene
Concen: 51.167 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

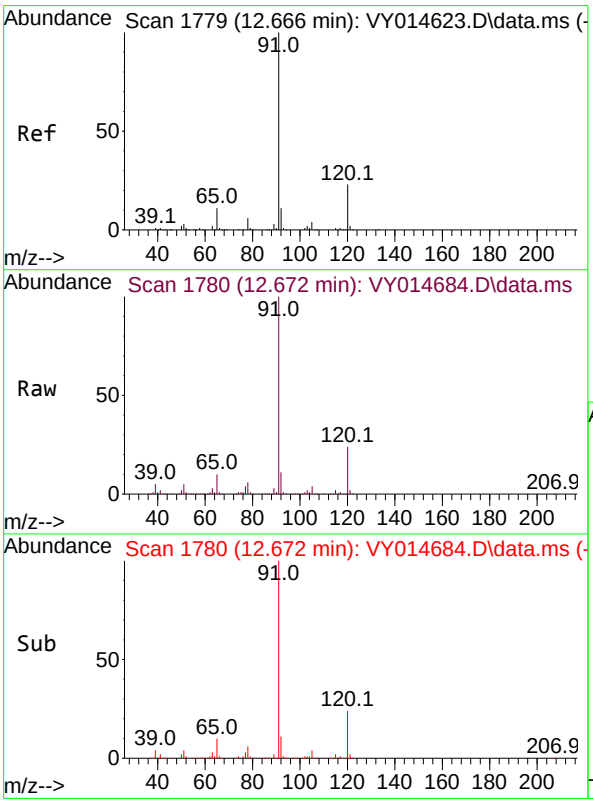
Tgt Ion:156 Resp: 8805

Ion	Ratio	Lower	Upper
156	100		
77	178.6	92.8	278.6
158	97.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

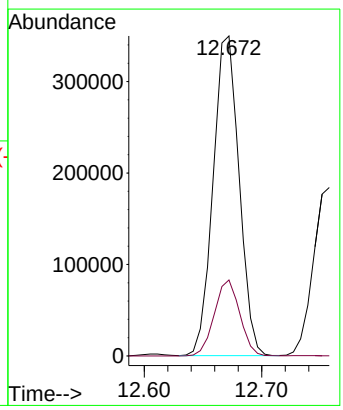
Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

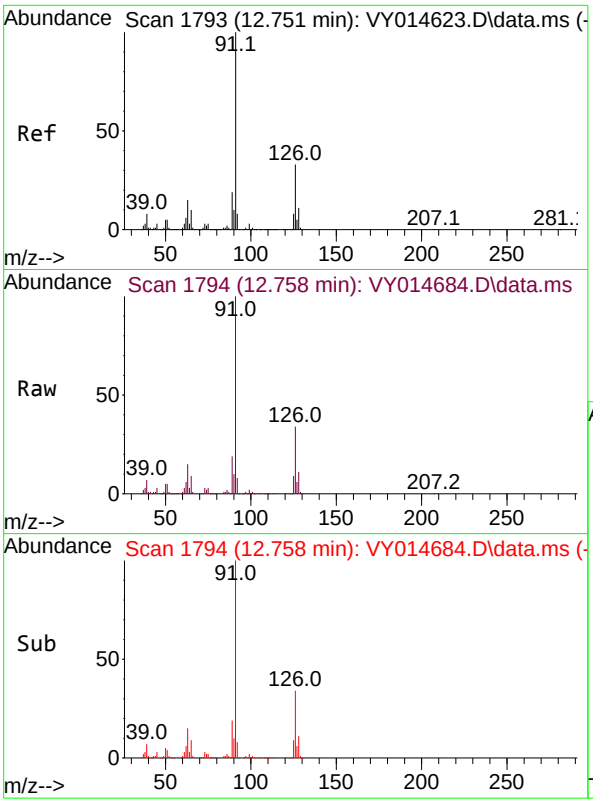


#78
n-propylbenzene
Concen: 59.222 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 91 Resp: 538014

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.5	34.4





#79
2-Chlorotoluene
Concen: 55.323 ug/l
RT: 12.758 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

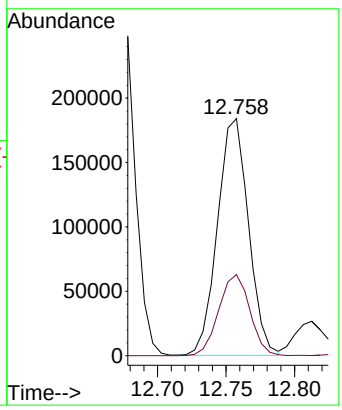
Tgt Ion: 91 Resp: 28948

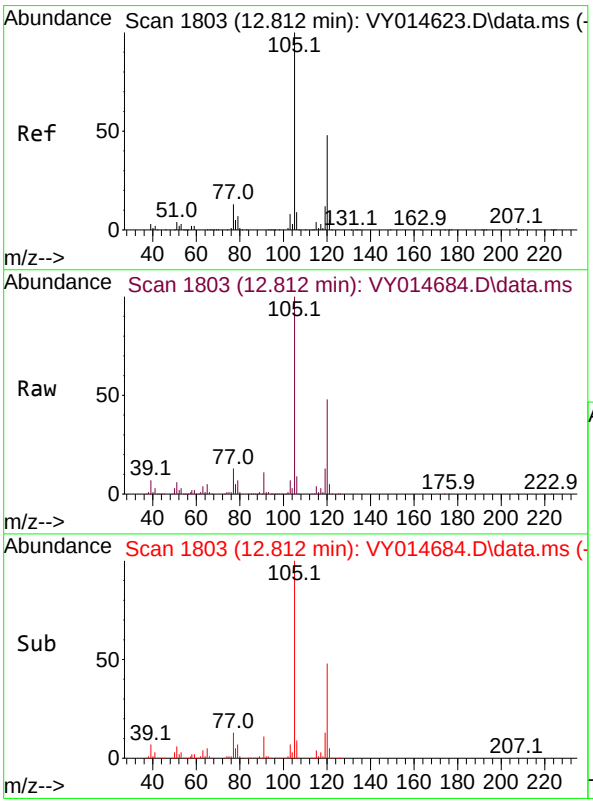
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	51.7

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

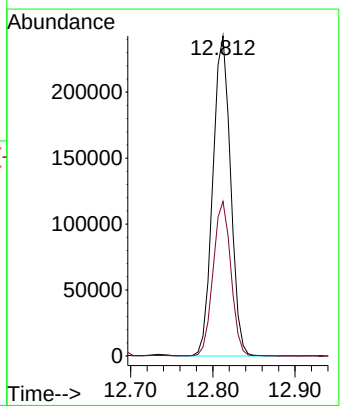


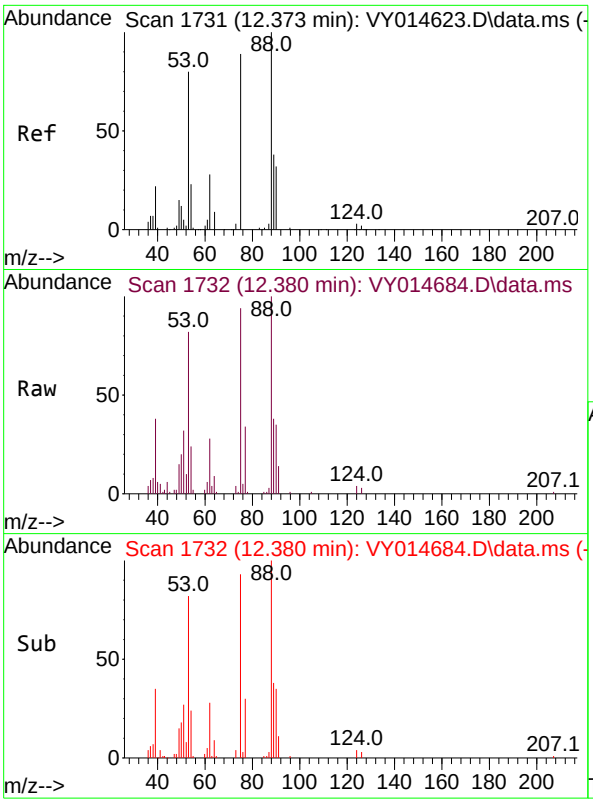


#80
1,3,5-Trimethylbenzene
Concen: 57.768 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:105 Resp: 363725

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 22.077 ug/l
RT: 12.380 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

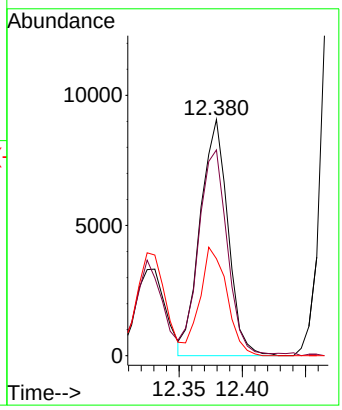
Tgt Ion: 75 Resp: 1386

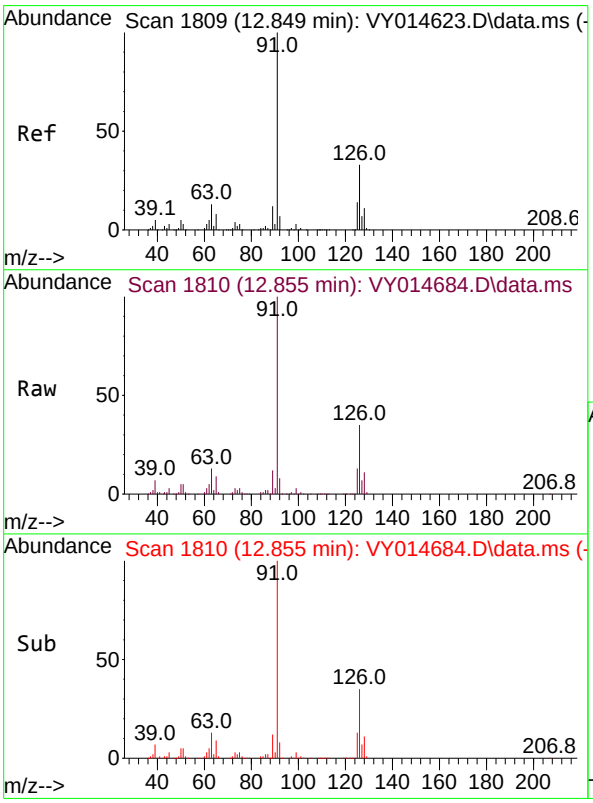
Ion	Ratio	Lower	Upper
75	100		
53	88.3	77.8	116.8
89	44.1	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

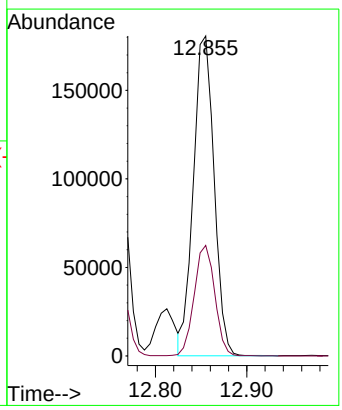


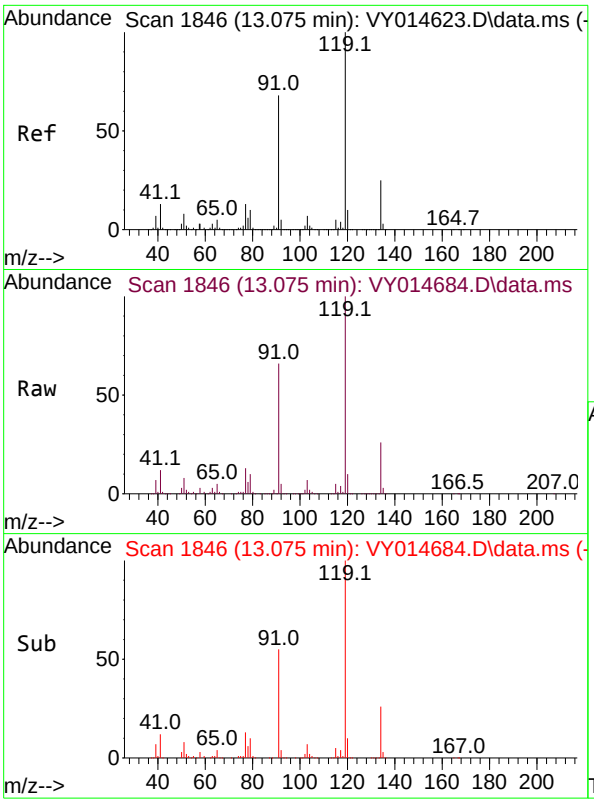


#82
4-Chlorotoluene
Concen: 52.762 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 91 Resp: 284339

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.2	51.6

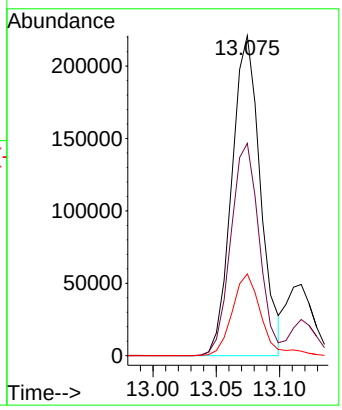




#83
tert-Butylbenzene
Concen: 62.255 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:119 Resp: 34771

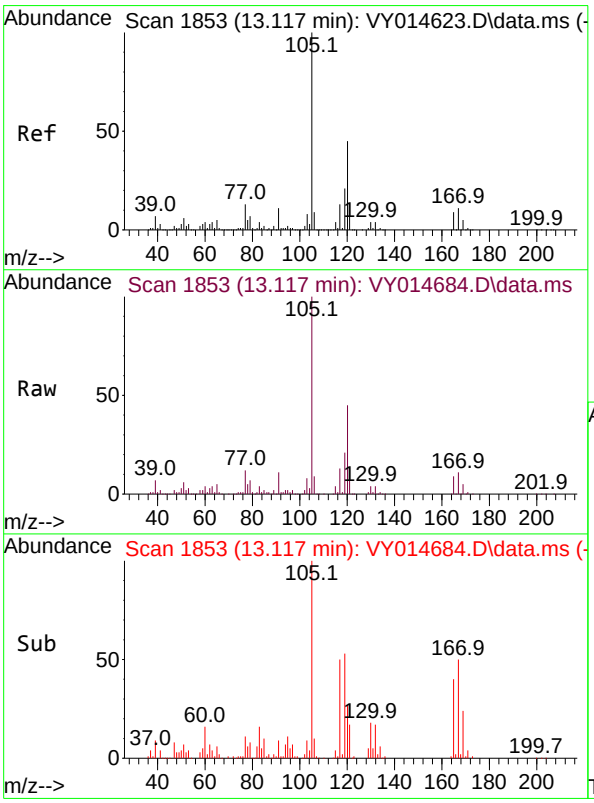
Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.9	98.6
134	26.1	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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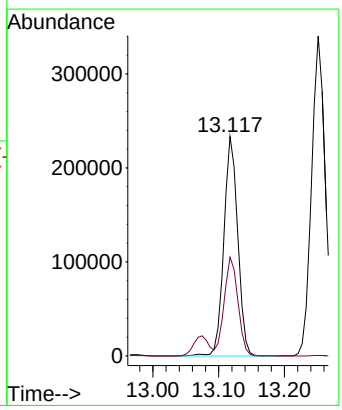
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

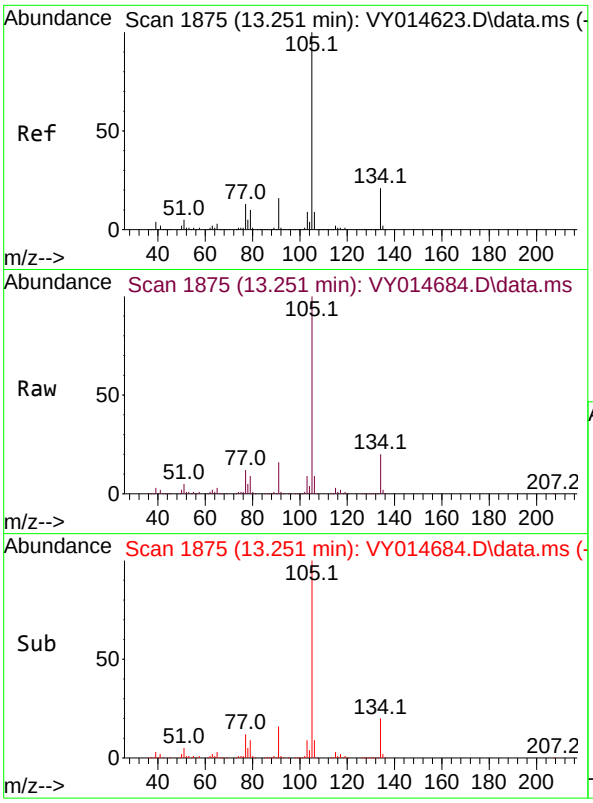


#84
1,2,4-Trimethylbenzene
Concen: 55.514 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:105 Resp: 343023

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.2	66.6





#85
sec-Butylbenzene
Concen: 59.784 ug/l
RT: 13.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

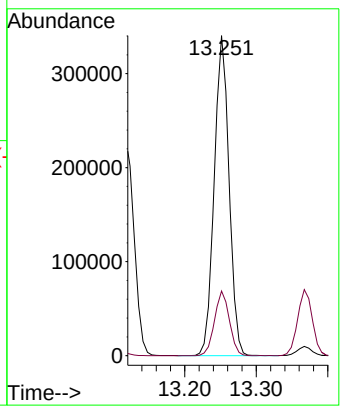
Tgt Ion:105 Resp: 48981

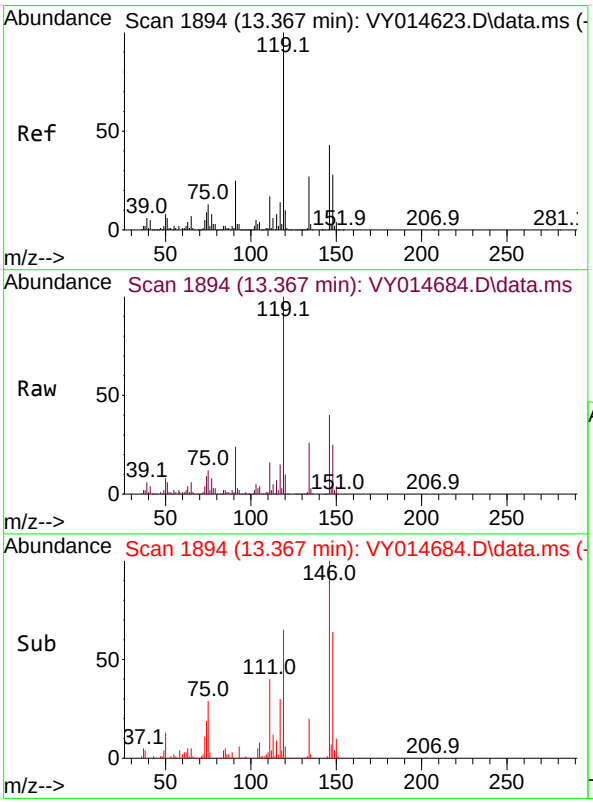
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

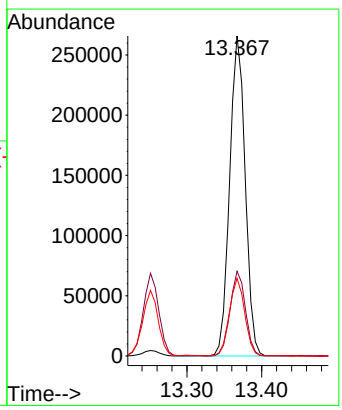


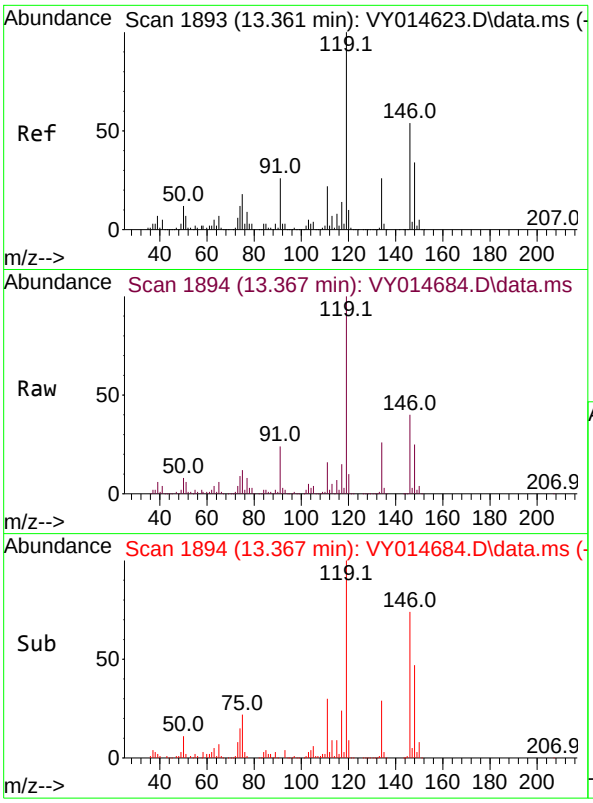


#86
p-Isopropyltoluene
Concen: 57.385 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:119 Resp: 383874

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.3	39.8
91	23.8	12.4	37.4

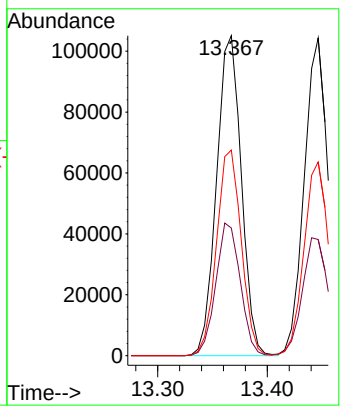




#87
1,3-Dichlorobenzene
Concen: 49.326 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:146 Resp: 16521

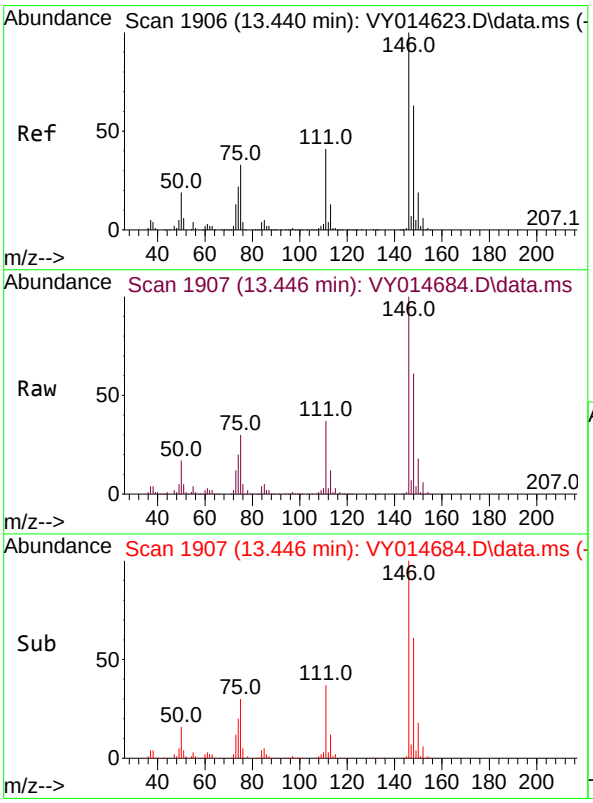
Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.4	58.2
148	64.1	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

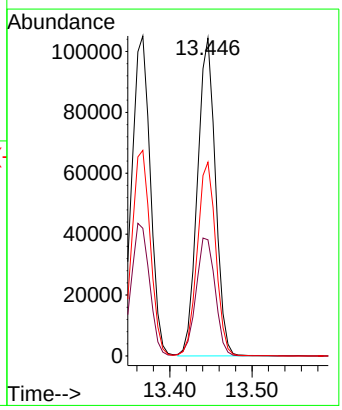
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

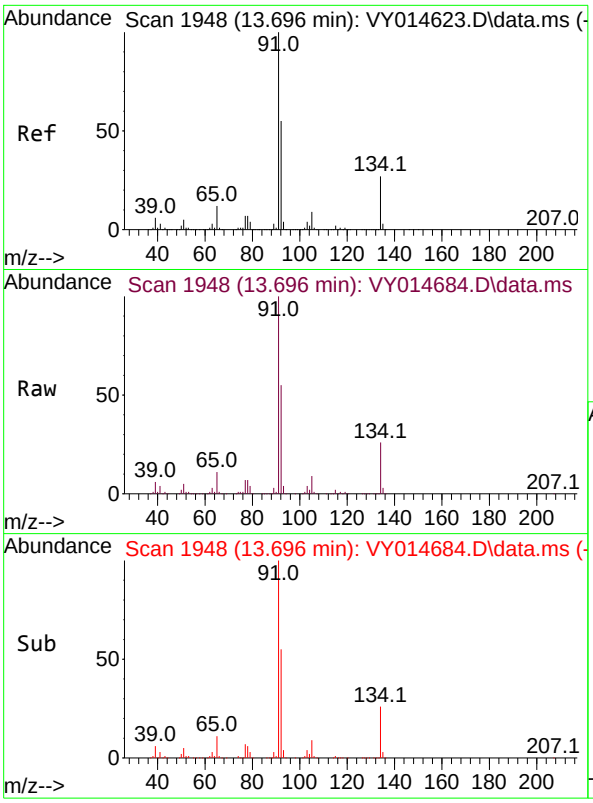


#88
1,4-Dichlorobenzene
Concen: 47.259 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:146 Resp: 158619

Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.9	56.7
148	62.6	32.1	96.5

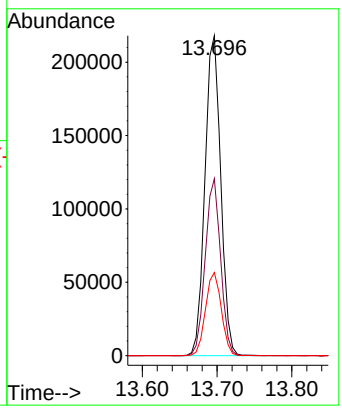




#89
n-Butylbenzene
Concen: 49.132 ug/l
RT: 13.696 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 91 Resp: 31975

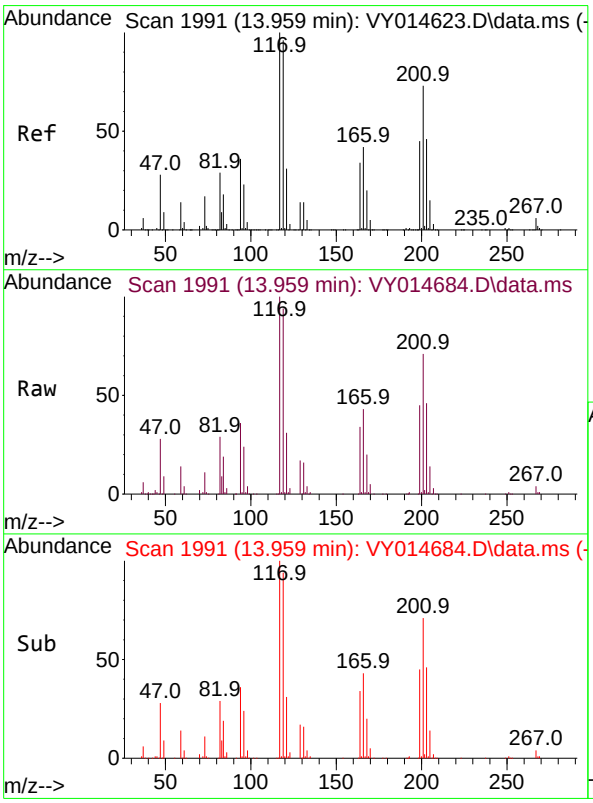
Ion	Ratio	Lower	Upper
91	100		
92	53.9	25.4	76.0
134	26.0	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

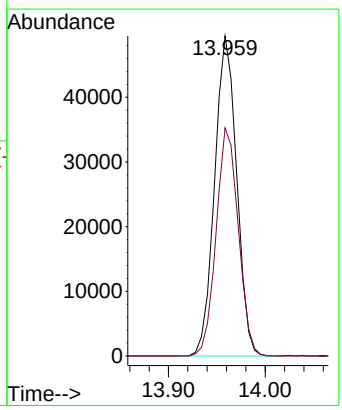
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

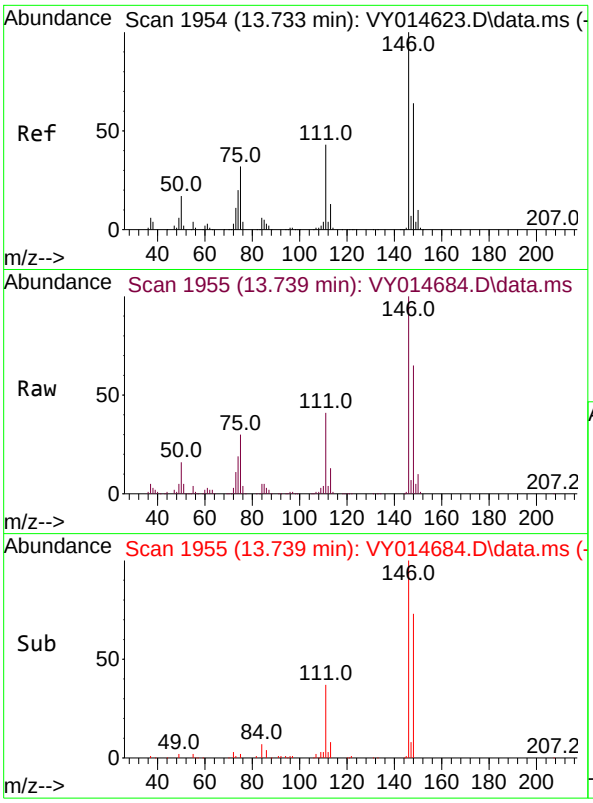


#90
Hexachloroethane
Concen: 56.895 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:117 Resp: 78174

Ion	Ratio	Lower	Upper
117	100		
201	71.7	41.6	124.8

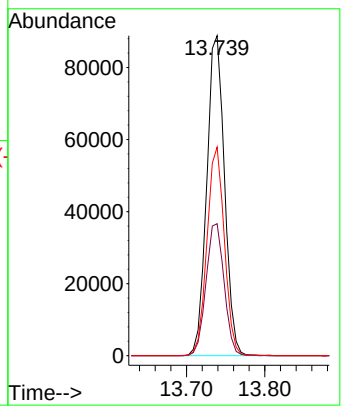




#91
1,2-Dichlorobenzene
Concen: 45.475 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

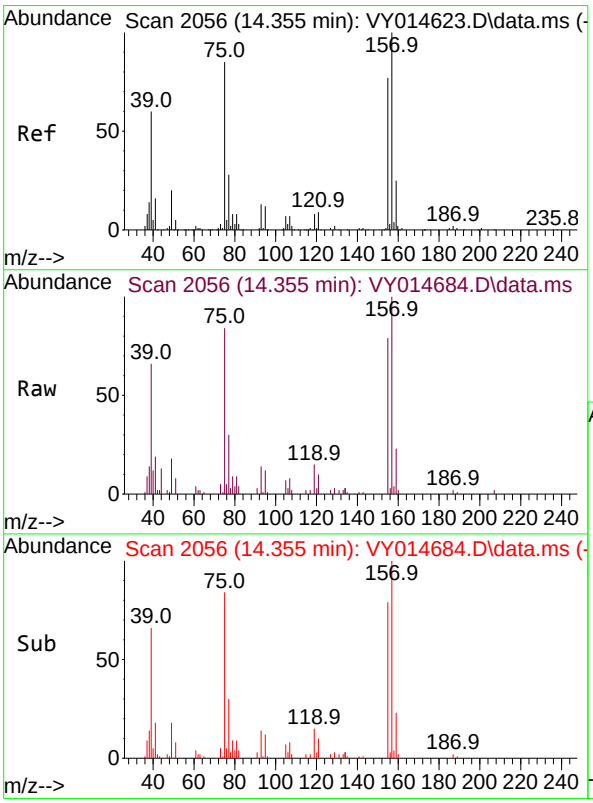
Tgt Ion:146 Resp: 13954

Ion	Ratio	Lower	Upper
146	100		
111	42.1	19.7	59.0
148	63.9	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

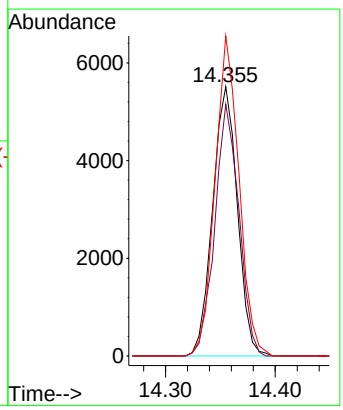
Manual Integrations APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

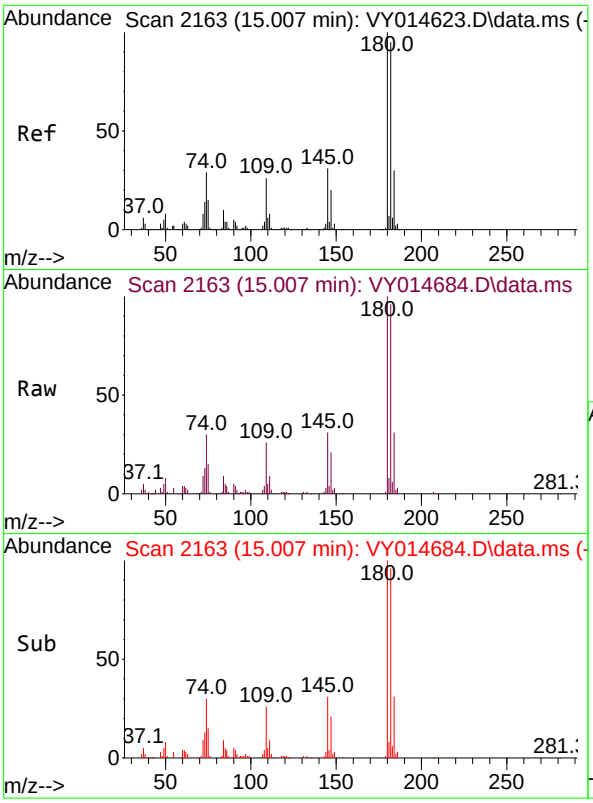


#92
1,2-Dibromo-3-Chloropropane
Concen: 26.260 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion: 75 Resp: 8634

Ion	Ratio	Lower	Upper
75	100		
155	91.1	41.5	124.6
157	115.3	51.8	155.5





#93
1,2,4-Trichlorobenzene
Concen: 31.268 ug/l
RT: 15.007 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

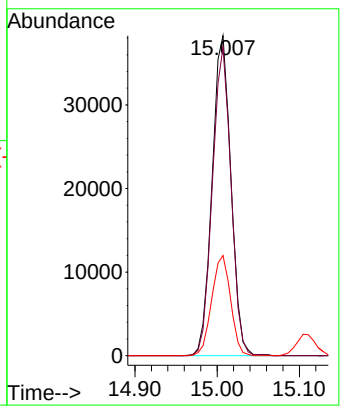
Tgt Ion:180 Resp: 6091

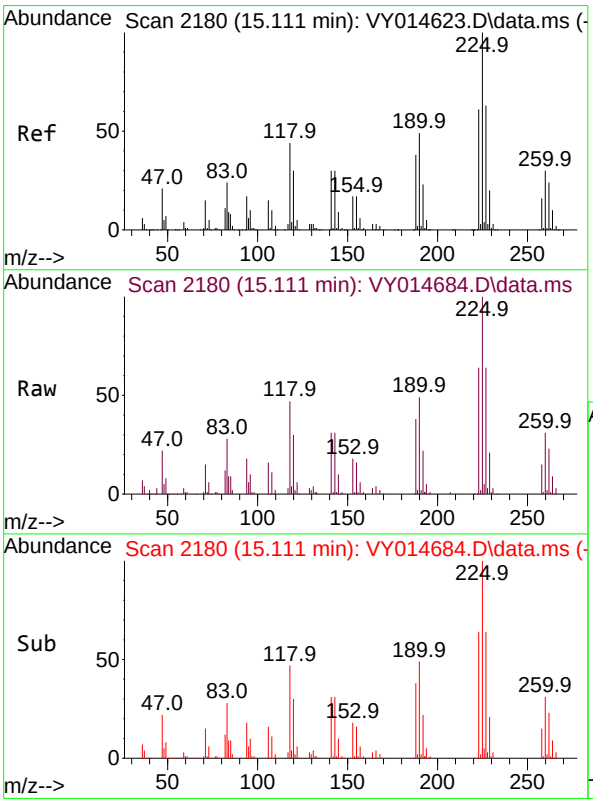
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.0	141.2
145	31.3	14.5	43.5

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

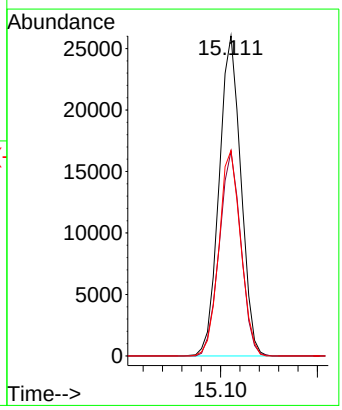


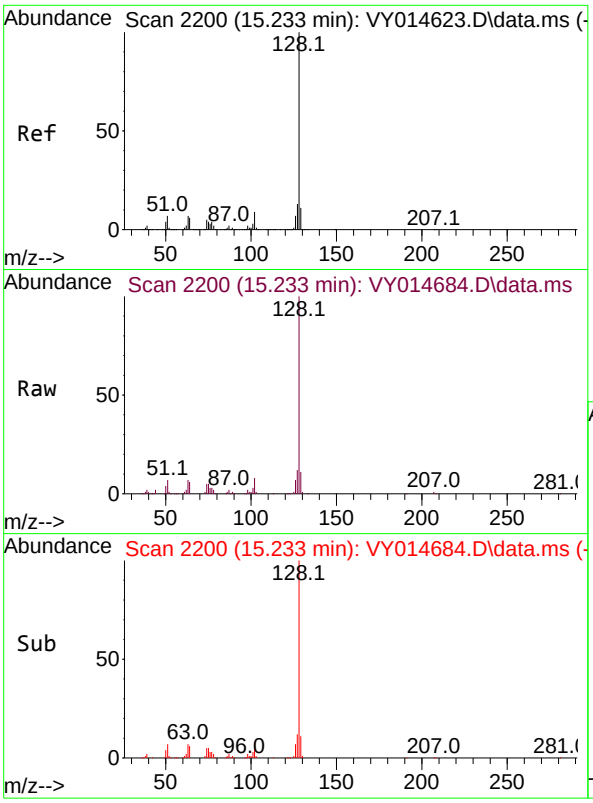


#94
Hexachlorobutadiene
Concen: 37.905 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:225 Resp: 40577

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.9
227	64.2	33.0	98.9

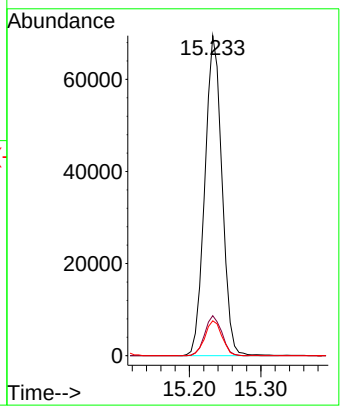




#95
Naphthalene
Concen: 25.487 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:128 Resp: 11566

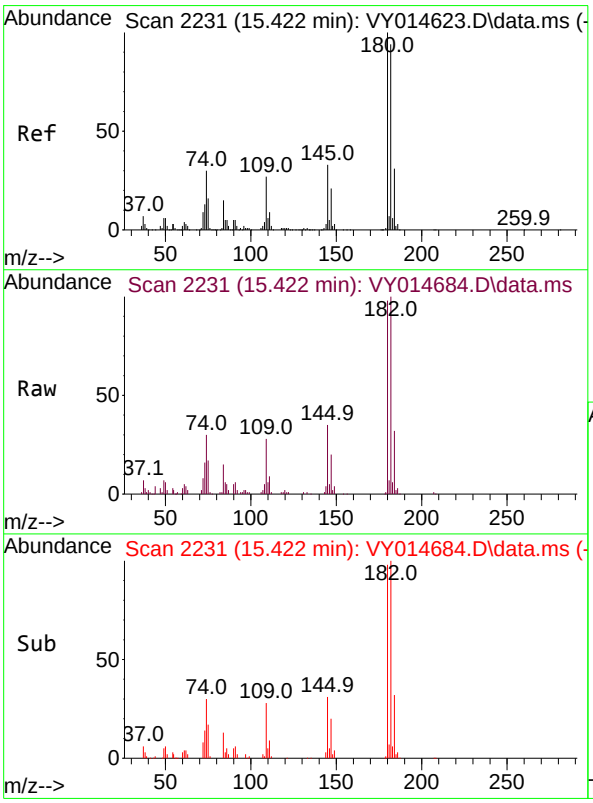
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.8	16.2
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MS

Manual Integrations
APPROVED

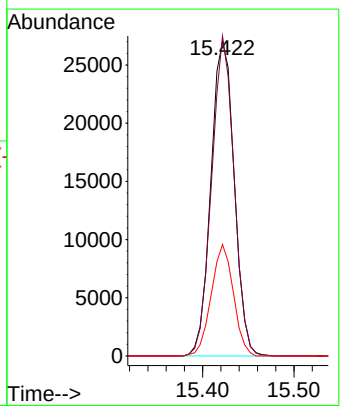
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#96
1,2,3-Trichlorobenzene
Concen: 27.663 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014684.D
Acq: 17 Jul 2023 19:51

Tgt Ion:180 Resp: 47892

Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.3	141.8
145	33.7	15.4	46.2



CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MSD	SDG No.:	O3631
Lab Sample ID:	O3631-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	6.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014685.D	1		07/17/23 20:14	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	45.1		1.50	4.50	ug/Kg
74-87-3	Chloromethane	53.2		0.82	4.50	ug/Kg
75-01-4	Vinyl Chloride	56.3		0.83	4.50	ug/Kg
74-83-9	Bromomethane	57.3		1.10	4.50	ug/Kg
75-00-3	Chloroethane	57.3		0.79	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	49.2		0.95	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	47.1		0.65	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	47.2		0.71	4.50	ug/Kg
67-64-1	Acetone	200		8.40	22.4	ug/Kg
75-15-0	Carbon Disulfide	42.4		2.00	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	48.9		0.58	4.50	ug/Kg
79-20-9	Methyl Acetate	80.0		1.50	4.50	ug/Kg
75-09-2	Methylene Chloride	52.9		5.40	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	45.6		0.66	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	46.6		0.65	4.50	ug/Kg
110-82-7	Cyclohexane	40.0		0.63	4.50	ug/Kg
78-93-3	2-Butanone	220		6.50	22.4	ug/Kg
56-23-5	Carbon Tetrachloride	48.2		0.70	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	47.0		0.57	4.50	ug/Kg
74-97-5	Bromochloromethane	39.4		2.10	4.50	ug/Kg
67-66-3	Chloroform	47.1		1.20	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	47.8		0.68	4.50	ug/Kg
108-87-2	Methylcyclohexane	39.8		3.00	4.50	ug/Kg
71-43-2	Benzene	46.5		0.59	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	47.5		0.65	4.50	ug/Kg
79-01-6	Trichloroethene	46.0		0.59	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	46.1		0.53	4.50	ug/Kg
75-27-4	Bromodichloromethane	47.1		0.63	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	240		4.00	22.4	ug/Kg
108-88-3	Toluene	45.4		0.58	4.50	ug/Kg

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MSD	SDG No.:	O3631
Lab Sample ID:	O3631-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	6.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014685.D	1		07/17/23 20:14	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	42.9		0.69	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	42.9		0.66	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	48.8		0.77	4.50	ug/Kg
591-78-6	2-Hexanone	220		4.70	22.4	ug/Kg
124-48-1	Dibromochloromethane	48.5		0.76	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	48.1		0.71	4.50	ug/Kg
127-18-4	Tetrachloroethene	51.9		0.69	4.50	ug/Kg
108-90-7	Chlorobenzene	46.1		0.57	4.50	ug/Kg
100-41-4	Ethyl Benzene	47.3		0.60	4.50	ug/Kg
179601-23-1	m/p-Xylenes	93.3		1.30	9.00	ug/Kg
1330-20-7	Total Xylenes	141		1.99	13.5	ug/Kg
95-47-6	o-Xylene	47.3		0.69	4.50	ug/Kg
100-42-5	Styrene	45.4		0.62	4.50	ug/Kg
75-25-2	Bromoform	50.6		0.85	4.50	ug/Kg
98-82-8	Isopropylbenzene	52.8		0.64	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	58.1		0.96	4.50	ug/Kg
103-65-1	n-propylbenzene	49.1		0.63	4.50	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	49.4		0.57	4.50	ug/Kg
98-06-6	tert-Butylbenzene	50.1		0.69	4.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	48.8		0.60	4.50	ug/Kg
135-98-8	sec-Butylbenzene	46.7		0.69	4.50	ug/Kg
99-87-6	p-Isopropyltoluene	46.2		0.66	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	46.4		0.61	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	46.4		0.54	4.50	ug/Kg
104-51-8	n-Butylbenzene	40.0		0.61	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	47.3		0.54	4.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	54.5		1.10	4.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	33.8		0.55	4.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	33.8		0.57	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.6		50 - 163	105%	SPK: 50

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/11/23
Project:	613 Pine Avenue	Date Received:	07/14/23
Client Sample ID:	SB-02(2-4)MSD	SDG No.:	O3631
Lab Sample ID:	O3631-03MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.3
Sample Wt/Vol:	6.53 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY014685.D	1		07/17/23 20:14	VY071723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1868-53-7	Dibromofluoromethane	53.6		54 - 147	107%	SPK: 50
2037-26-5	Toluene-d8	50.3		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		30 - 143	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	202000	7.789			
540-36-3	1,4-Difluorobenzene	333000	8.685			
3114-55-4	Chlorobenzene-d5	274000	11.49			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.422			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014685.D
Acq On : 17 Jul 2023 20:14
Operator : SY/MD
Sample : 03631-03MSD
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Quant Time: Jul 18 06:15:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.789	168	202383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	333321	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	273650	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	114737	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	121311	52.601	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.200%			
35) Dibromofluoromethane	7.716	113	113671	53.572	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.140%			
50) Toluene-d8	10.179	98	393810	50.341	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.680%			
62) 4-Bromofluorobenzene	12.477	95	131528	43.849	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	82826	50.233	ug/l	100
3) Chloromethane	2.107	50	109838	59.261	ug/l	99
4) Vinyl Chloride	2.247	62	129902	62.711	ug/l	98
5) Bromomethane	2.644	94	87317	63.786	ug/l	99
6) Chloroethane	2.784	64	82562	63.808	ug/l	93
7) Trichlorofluoromethane	3.119	101	190514	54.762	ug/l	95
8) Diethyl Ether	3.528	74	67838	52.408	ug/l	88
9) 1,1,2-Trichlorotrifluo...	3.893	101	111824	52.441	ug/l	96
10) Methyl Iodide	4.082	142	100712	44.812	ug/l	96
11) Tert butyl alcohol	4.960	59	92513	187.849	ug/l #	79
12) 1,1-Dichloroethene	3.863	96	104739	52.555	ug/l	93
13) Acrolein	3.741	56	984	4.082	ug/l	98
14) Allyl chloride	4.473	41	168199	47.533	ug/l	96
15) Acrylonitrile	5.155	53	182339	255.451	ug/l	99
16) Acetone	3.942	43	162187	221.926	ug/l	92
17) Carbon Disulfide	4.186	76	269694	47.267	ug/l	100
18) Methyl Acetate	4.473	43	249971	89.131	ug/l	93
19) Methyl tert-butyl Ether	5.216	73	352973	54.523	ug/l	100
20) Methylene Chloride	4.710	84	138108	58.926	ug/l	92
21) trans-1,2-Dichloroethene	5.216	96	114976	50.836	ug/l	96
22) Diisopropyl ether	6.119	45	366978	51.009	ug/l #	86
23) Vinyl Acetate	6.058	43	224512	52.148	ug/l #	95
24) 1,1-Dichloroethane	6.009	63	213584	51.885	ug/l	97
25) 2-Butanone	6.984	43	259657	242.856	ug/l	95
26) 2,2-Dichloropropane	6.978	77	169606	43.231	ug/l	97
27) cis-1,2-Dichloroethene	6.978	96	137842	52.360	ug/l	92
28) Bromochloromethane	7.332	49	77913	43.947	ug/l	90
29) Tetrahydrofuran	7.344	42	178377	270.945	ug/l	92
30) Chloroform	7.503	83	222696	52.462	ug/l	95
31) Cyclohexane	7.783	56	170615	44.566	ug/l	90
32) 1,1,1-Trichloroethane	7.698	97	203279	53.207	ug/l	99
36) 1,1-Dichloropropene	7.917	75	161675	50.951	ug/l	99
37) Ethyl Acetate	7.070	43	78655	36.003	ug/l #	94
38) Carbon Tetrachloride	7.899	117	179928	53.641	ug/l	97
39) Methylcyclohexane	9.179	83	183331	44.347	ug/l	94
40) Benzene	8.161	78	467775	51.833	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014685.D
Acq On : 17 Jul 2023 20:14
Operator : SY/MD
Sample : 03631-03MSD
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 18 06:15:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.314	41	50075m	44.562	ug/l		
42) 1,2-Dichloroethane	8.234	62	151233	52.919	ug/l		96
43) Isopropyl Acetate	8.271	43	171238	41.147	ug/l		93
44) Trichloroethene	8.935	130	129519	51.295	ug/l		97
45) 1,2-Dichloropropane	9.216	63	121015	51.353	ug/l		96
46) Dibromomethane	9.307	93	77343	54.102	ug/l		96
47) Bromodichloromethane	9.496	83	176796	52.471	ug/l		98
48) Methyl methacrylate	9.289	41	108681	58.037	ug/l		92
49) 1,4-Dioxane	9.295	88	27104	1162.728	ug/l	#	50
51) 4-Methyl-2-Pentanone	10.069	43	591623	270.758	ug/l		94
52) Toluene	10.240	92	292286	50.614	ug/l		94
53) t-1,3-Dichloropropene	10.465	75	176136	47.791	ug/l		99
54) cis-1,3-Dichloropropene	9.929	75	191333	47.739	ug/l		93
55) 1,1,2-Trichloroethane	10.642	97	108355	54.412	ug/l		96
56) Ethyl methacrylate	10.508	69	112785	37.094	ug/l		89
57) 1,3-Dichloropropane	10.789	76	181130	52.735	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.783	63	325457	229.730	ug/l		94
59) 2-Hexanone	10.831	43	386073	242.285	ug/l		92
60) Dibromochloromethane	10.984	129	131825	53.992	ug/l		99
61) 1,2-Dibromoethane	11.087	107	106464	53.592	ug/l		100
64) Tetrachloroethene	10.715	164	127338	57.858	ug/l		99
65) Chlorobenzene	11.514	112	299368	51.337	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.587	131	126182	57.390	ug/l		99
67) Ethyl Benzene	11.593	91	554490	52.665	ug/l		98
68) m/p-Xylenes	11.703	106	417681	103.925	ug/l		96
69) o-Xylene	12.026	106	206260	52.690	ug/l		97
70) Styrene	12.044	104	333997	50.623	ug/l		98
71) Bromoform	12.209	173	83962	56.338	ug/l	#	99
73) Isopropylbenzene	12.331	105	528391	58.815	ug/l		100
74) N-amyl acetate	12.142	43	89020	29.586	ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.581	83	132541	64.694	ug/l		99
76) 1,2,3-Trichloropropane	12.630	75	97747m	67.454	ug/l		
77) Bromobenzene	12.605	156	121400	59.198	ug/l		95
78) n-propylbenzene	12.666	91	591619	54.649	ug/l		100
79) 2-Chlorotoluene	12.758	91	338577	54.299	ug/l		100
80) 1,3,5-Trimethylbenzene	12.813	105	413127	55.062	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.374	75	40868	54.605	ug/l		94
82) 4-Chlorotoluene	12.855	91	342021	53.259	ug/l		99
83) tert-Butylbenzene	13.075	119	371288	55.786	ug/l		100
84) 1,2,4-Trimethylbenzene	13.117	105	400111	54.339	ug/l		98
85) sec-Butylbenzene	13.252	105	507914	52.023	ug/l		100
86) p-Isopropyltoluene	13.367	119	410219	51.461	ug/l		99
87) 1,3-Dichlorobenzene	13.367	146	206175	51.657	ug/l		99
88) 1,4-Dichlorobenzene	13.440	146	206900	51.731	ug/l		98
89) n-Butylbenzene	13.697	91	345665	44.571	ug/l		97
90) Hexachloroethane	13.959	117	83575	51.044	ug/l		90
91) 1,2-Dichlorobenzene	13.739	146	192819	52.729	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.355	75	23793	60.727	ug/l		90
93) 1,2,4-Trichlorobenzene	15.007	180	87281	37.600	ug/l		98
94) Hexachlorobutadiene	15.111	225	41201	32.299	ug/l		99
95) Naphthalene	15.233	128	263295	48.686	ug/l		99
96) 1,2,3-Trichlorobenzene	15.422	180	77635	37.632	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071723\
Data File : VY014685.D
Acq On : 17 Jul 2023 20:14
Operator : SY/MD
Sample : 03631-03MSD
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 18 06:15:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

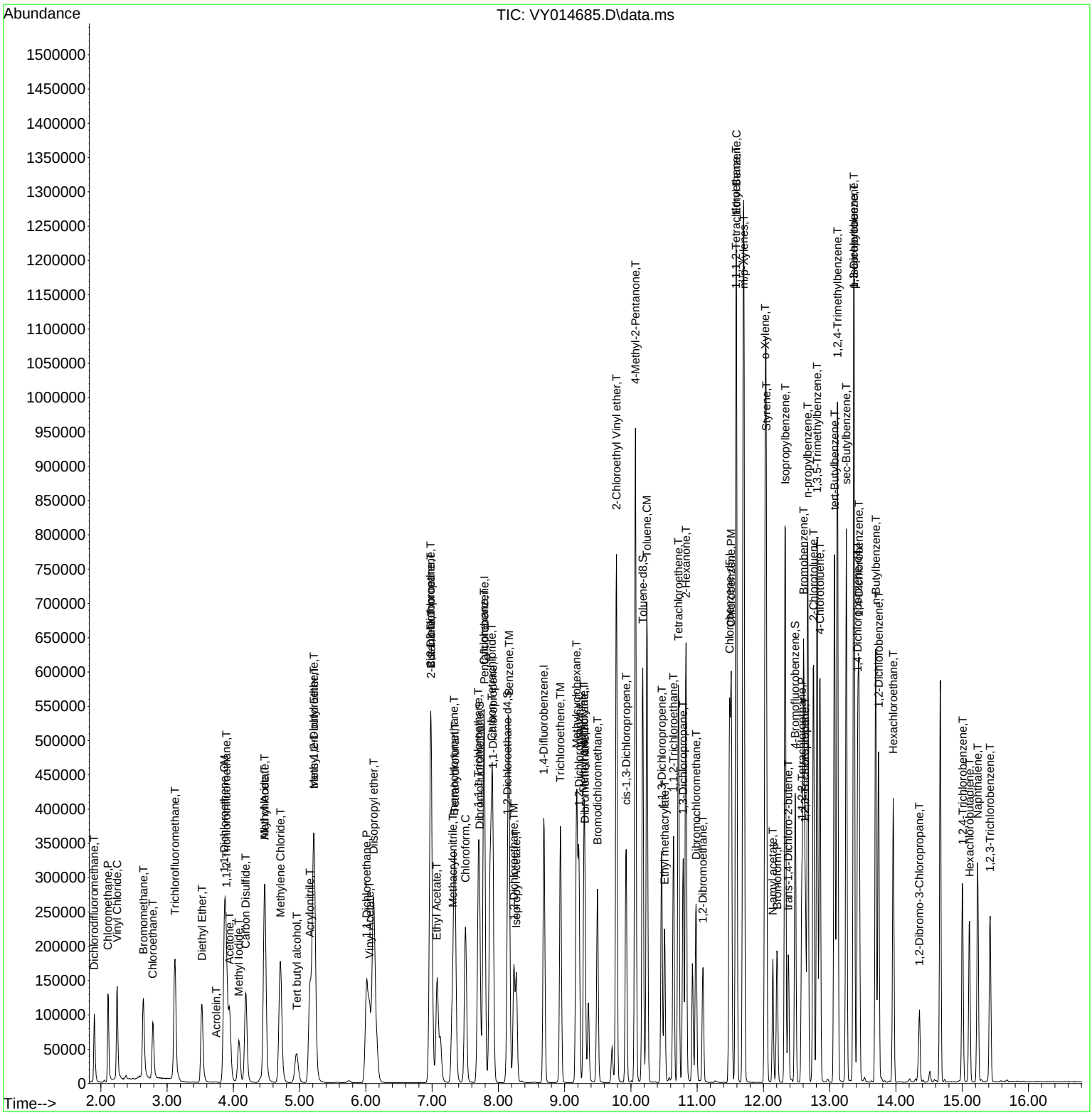
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Data File : VY014685.D
Acq On : 17 Jul 2023 20:14
Operator : SY/MD
Sample : 03631-03MSD
Misc : 6.53g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

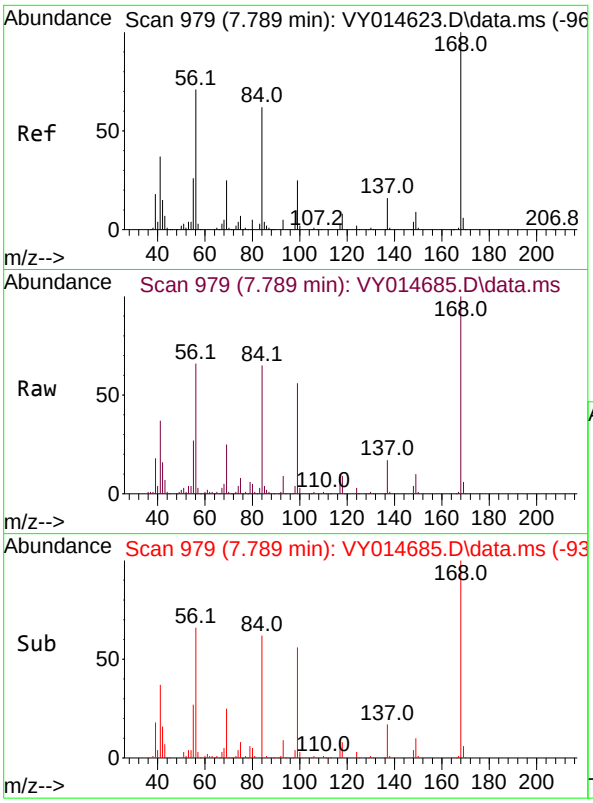
Quant Time: Jul 18 06:15:01 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 14 02:09:50 2023
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

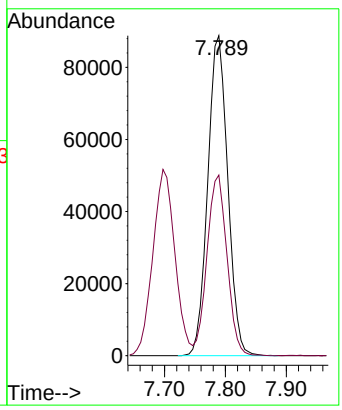




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:168 Resp: 20238

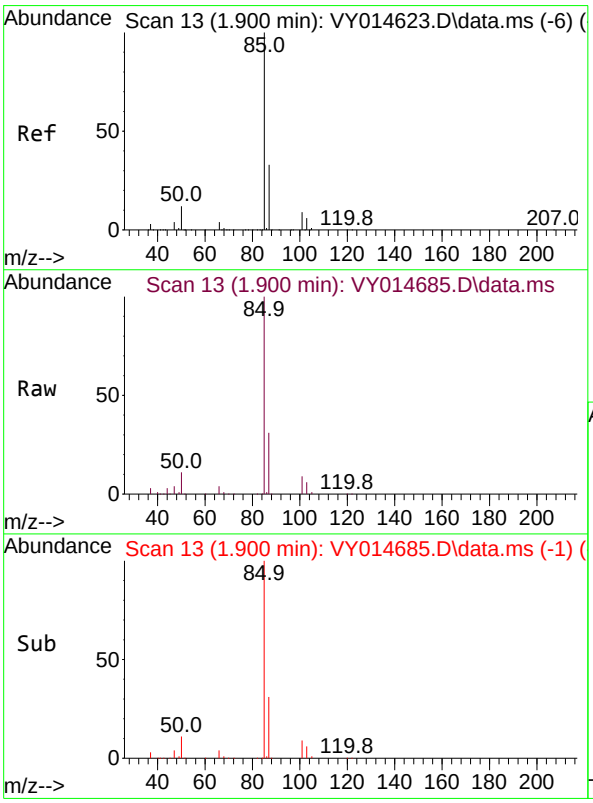
Ion	Ratio	Lower	Upper
168	100		
99	56.4	43.4	65.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

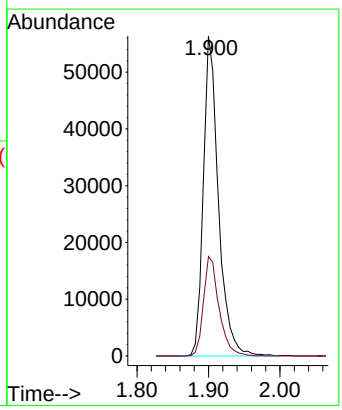
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

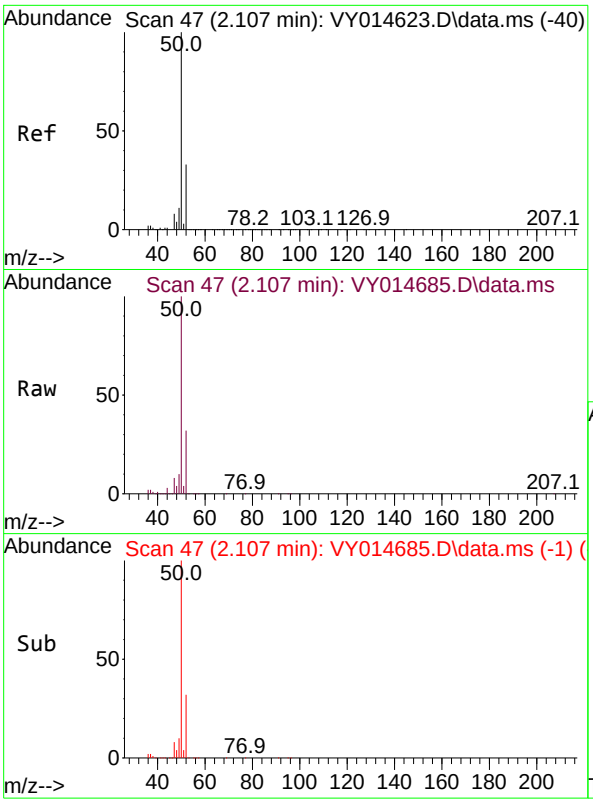


#2
Dichlorodifluoromethane
Concen: 50.233 ug/l
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 85 Resp: 82826

Ion	Ratio	Lower	Upper
85	100		
87	31.1	15.6	46.8





#3
Chloromethane
Concen: 59.261 ug/l
RT: 2.107 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

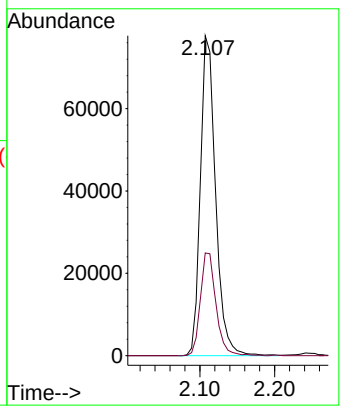
Tgt Ion: 50 Resp: 10983

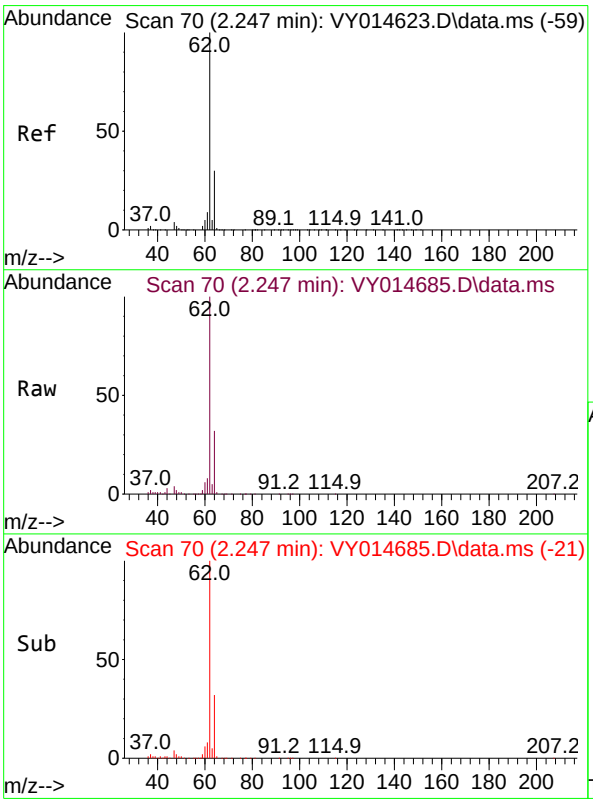
Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.4	38.2

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
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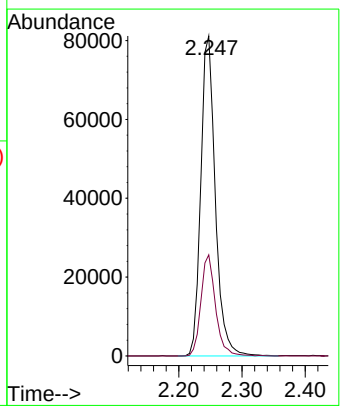


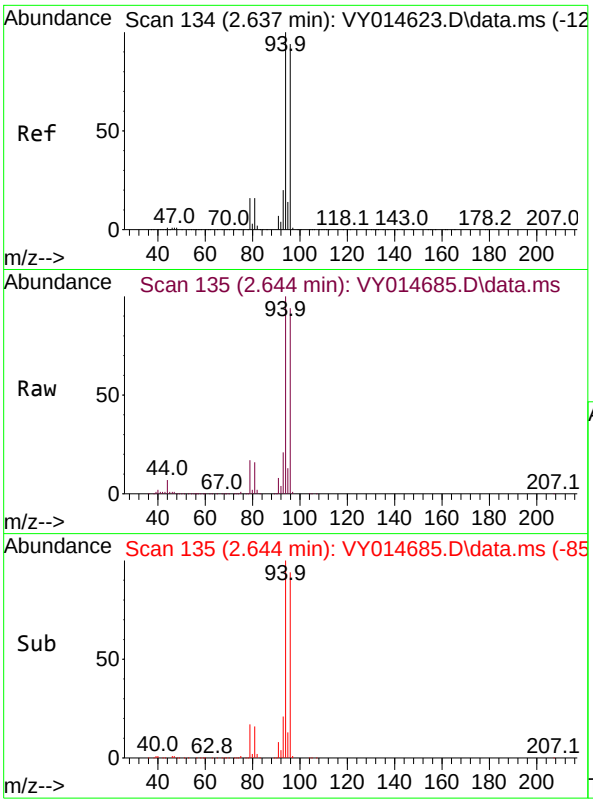


#4
Vinyl Chloride
Concen: 62.711 ug/l
RT: 2.247 min Scan# 70
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 62 Resp: 129902

Ion	Ratio	Lower	Upper
62	100		
64	31.6	24.3	36.5

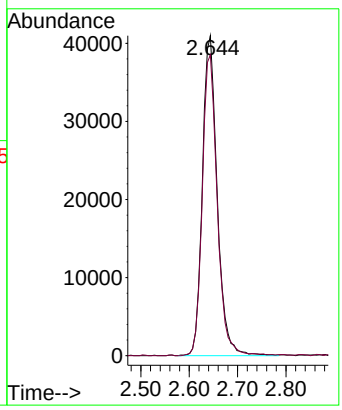




#5
Bromomethane
Concen: 63.786 ug/l
RT: 2.644 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 94 Resp: 8731

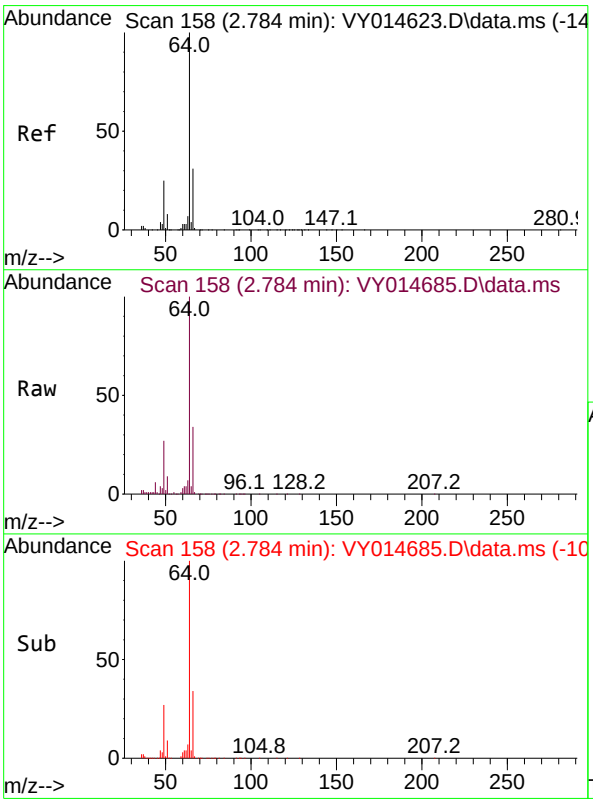
Ion	Ratio	Lower	Upper
94	100		
96	94.0	75.8	113.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED

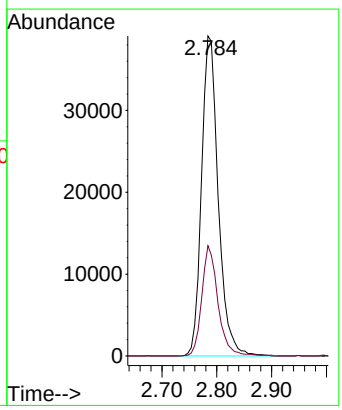
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

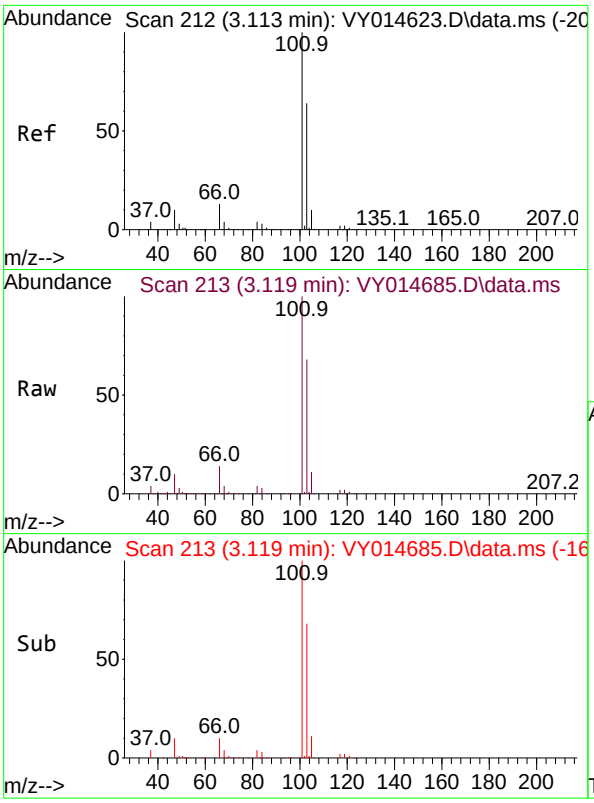


#6
Chloroethane
Concen: 63.808 ug/l
RT: 2.784 min Scan# 158
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 64 Resp: 82562

Ion	Ratio	Lower	Upper
64	100		
66	34.4	24.4	36.6

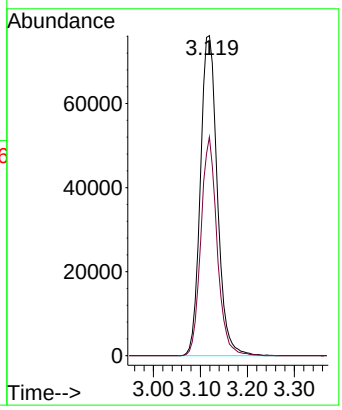




#7
Trichlorofluoromethane
Concen: 54.762 ug/l
RT: 3.119 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:101 Resp: 19051

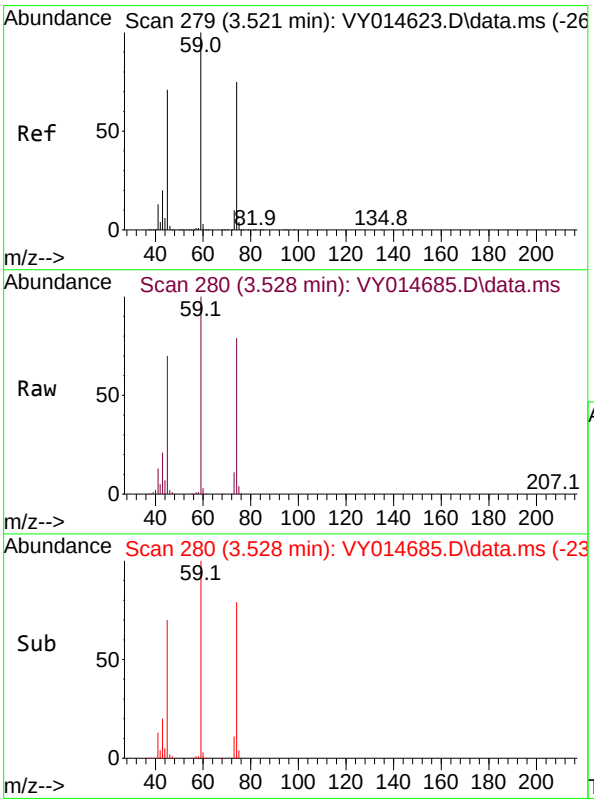
Ion	Ratio	Lower	Upper
101	100		
103	68.3	51.4	77.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

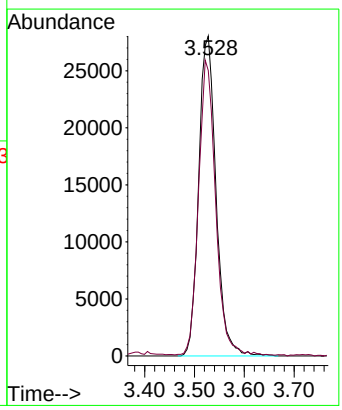
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

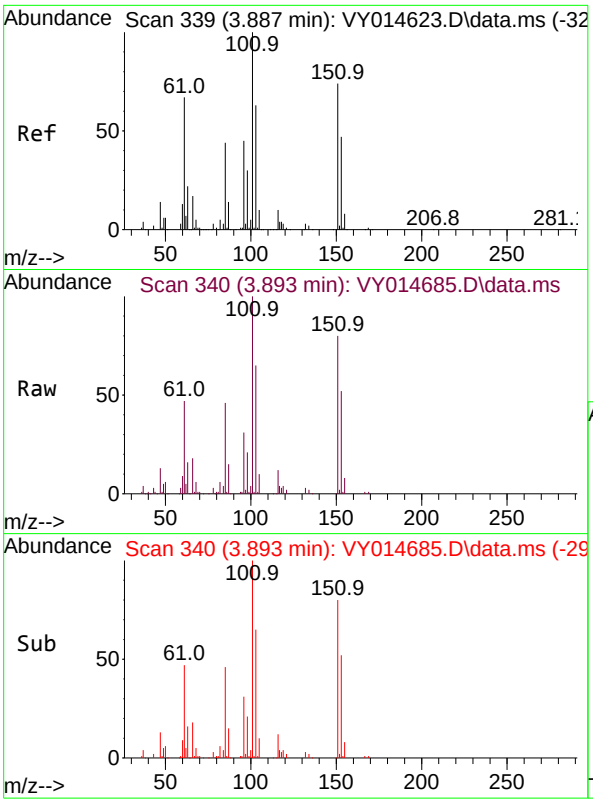


#8
Diethyl Ether
Concen: 52.408 ug/l
RT: 3.528 min Scan# 280
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 74 Resp: 67838

Ion	Ratio	Lower	Upper
74	100		
45	90.7	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.441 ug/l
RT: 3.893 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

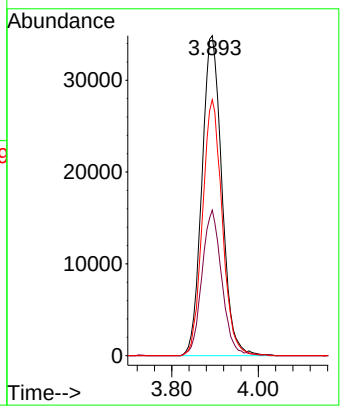
Tgt Ion:101 Resp: 11182

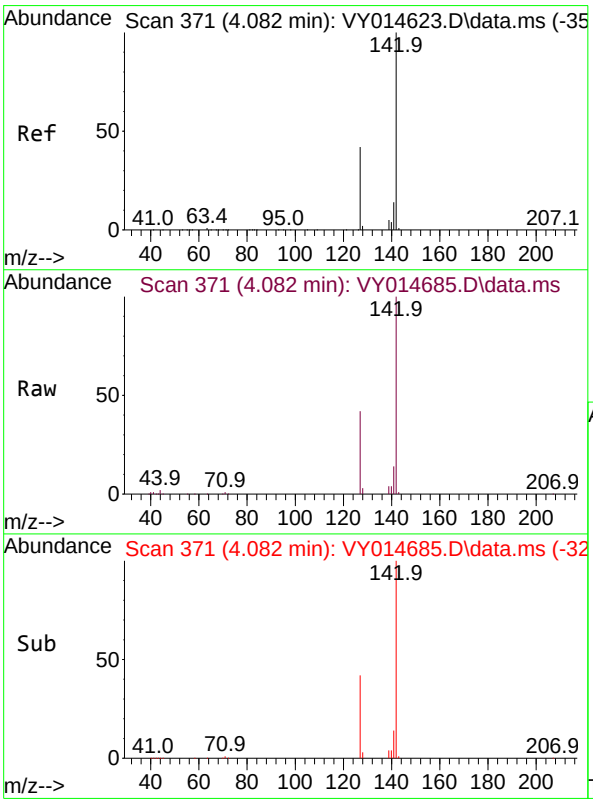
Ion	Ratio	Lower	Upper
101	100		
85	45.1	36.6	55.0
151	78.9	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

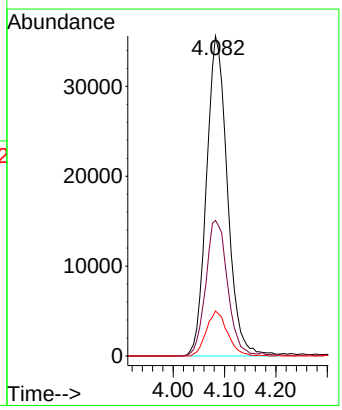


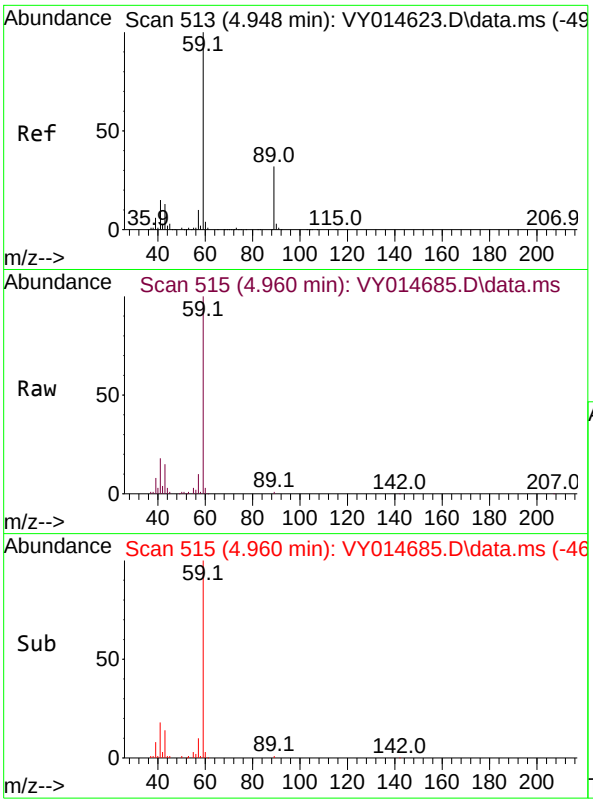


#10
Methyl Iodide
Concen: 44.812 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:142 Resp: 100712

Ion	Ratio	Lower	Upper
142	100		
127	44.0	37.6	56.4
141	14.1	11.8	17.8

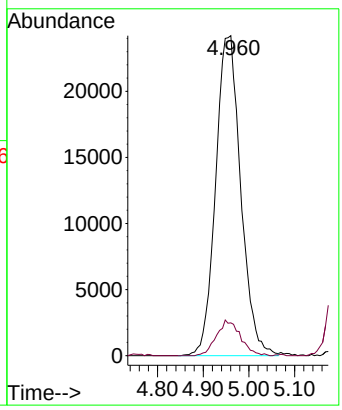




#11
Tert butyl alcohol
Concen: 187.849 ug/l
RT: 4.960 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 59 Resp: 9251

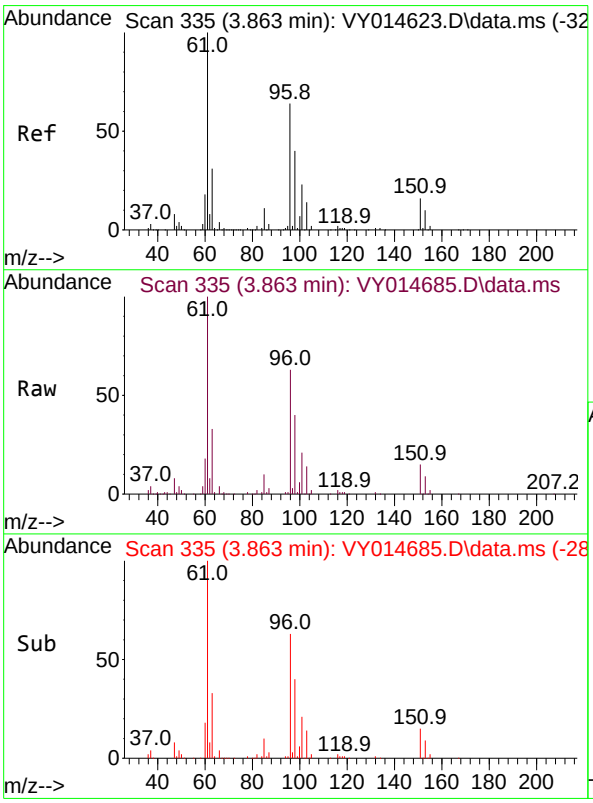
Ion	Ratio	Lower	Upper
59	100		
57	10.6	3.0	4.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

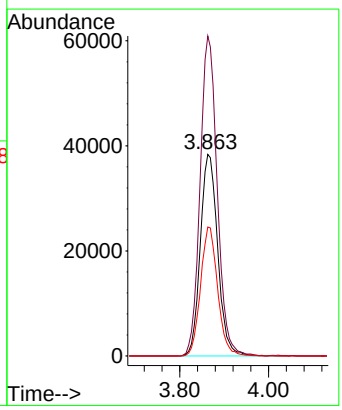
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

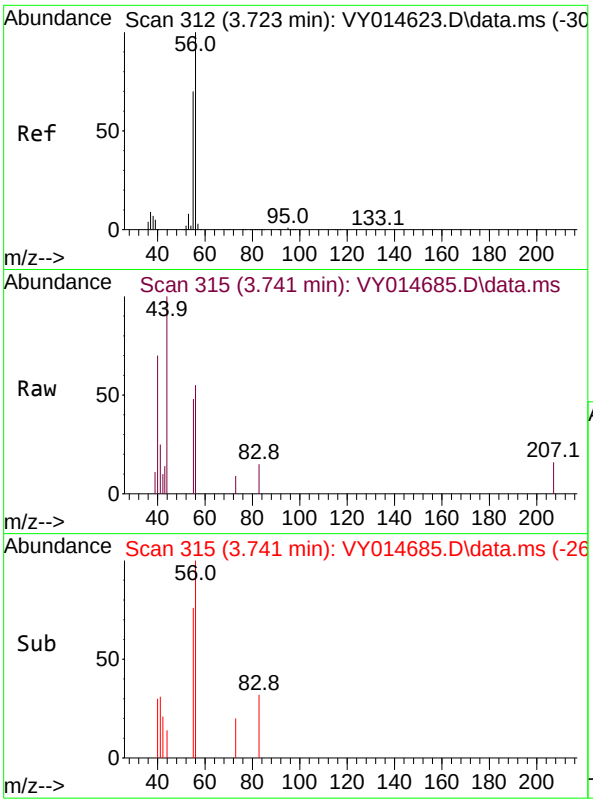


#12
1,1-Dichloroethene
Concen: 52.555 ug/l
RT: 3.863 min Scan# 335
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 96 Resp: 104739

Ion	Ratio	Lower	Upper
96	100		
61	158.7	136.4	204.6
98	64.0	49.4	74.2

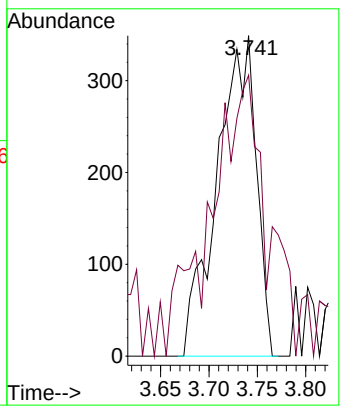




#13
Acrolein
Concen: 4.082 ug/l
RT: 3.741 min Scan# 3
Delta R.T. 0.018 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 56 Resp: 98

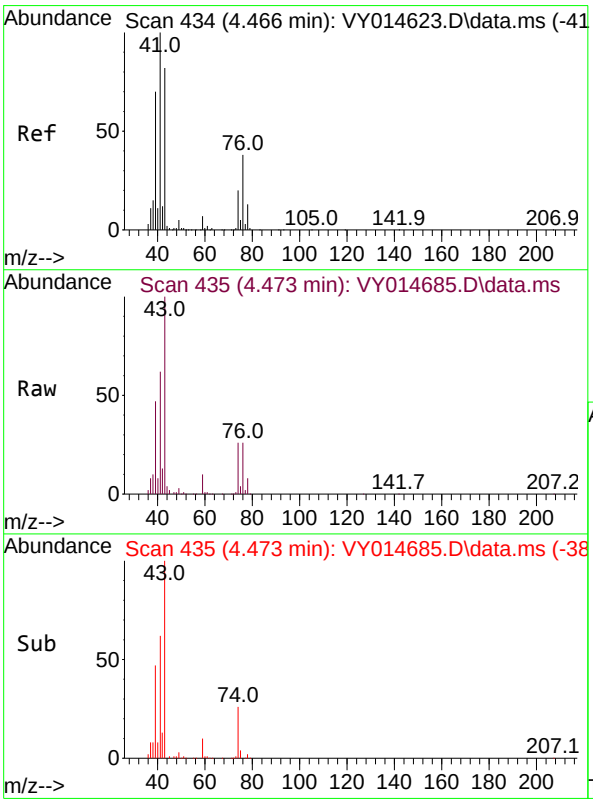
Ion	Ratio	Lower	Upper
56	100		
55	72.8	57.0	85.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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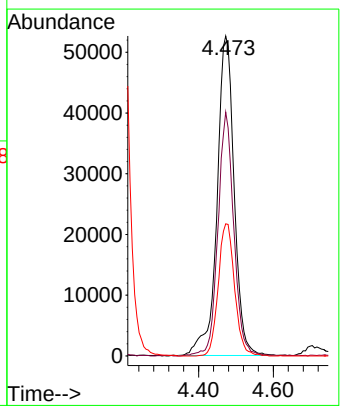
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

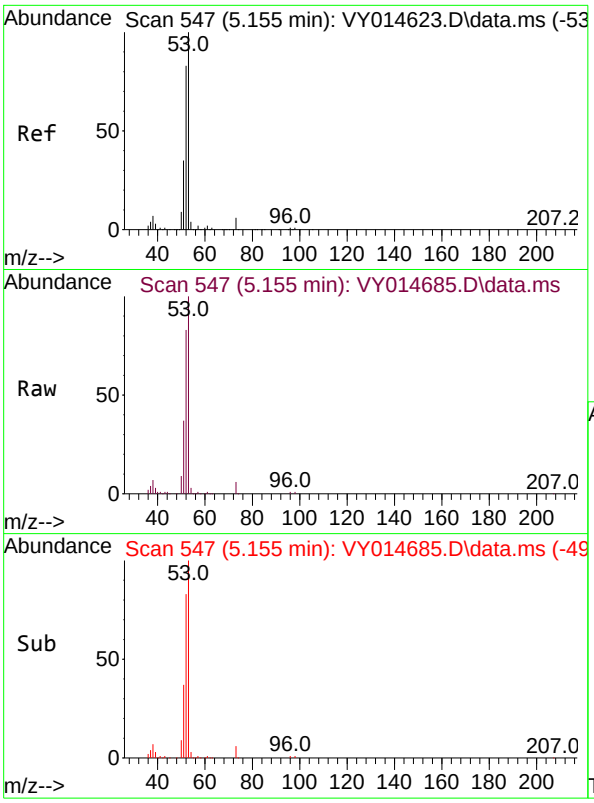


#14
Allyl chloride
Concen: 47.533 ug/l
RT: 4.473 min Scan# 435
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 41 Resp: 168199

Ion	Ratio	Lower	Upper
41	100		
39	70.6	58.0	87.0
76	39.3	27.4	41.2





#15
Acrylonitrile
Concen: 255.451 ug/l
RT: 5.155 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

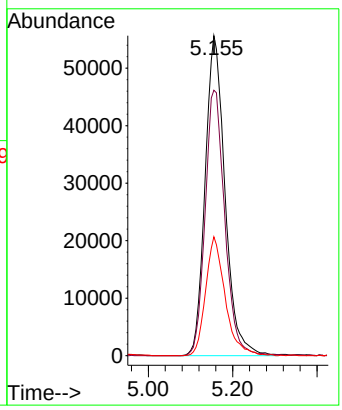
Tgt Ion: 53 Resp: 18233

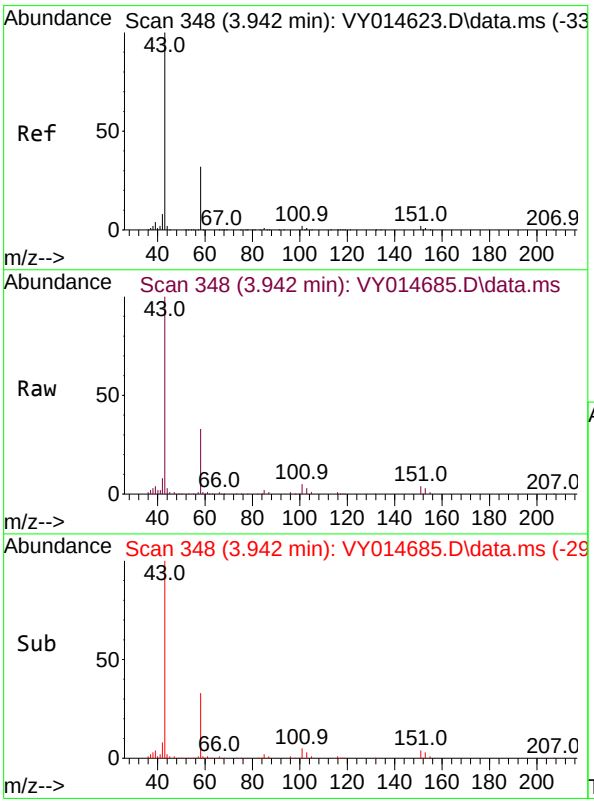
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.9	100.3
51	36.6	29.8	44.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

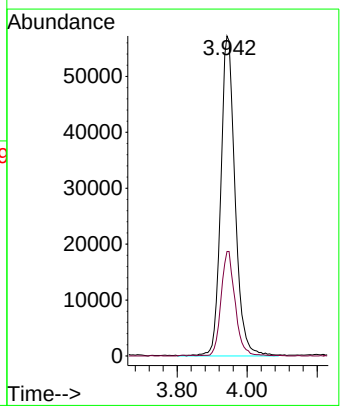


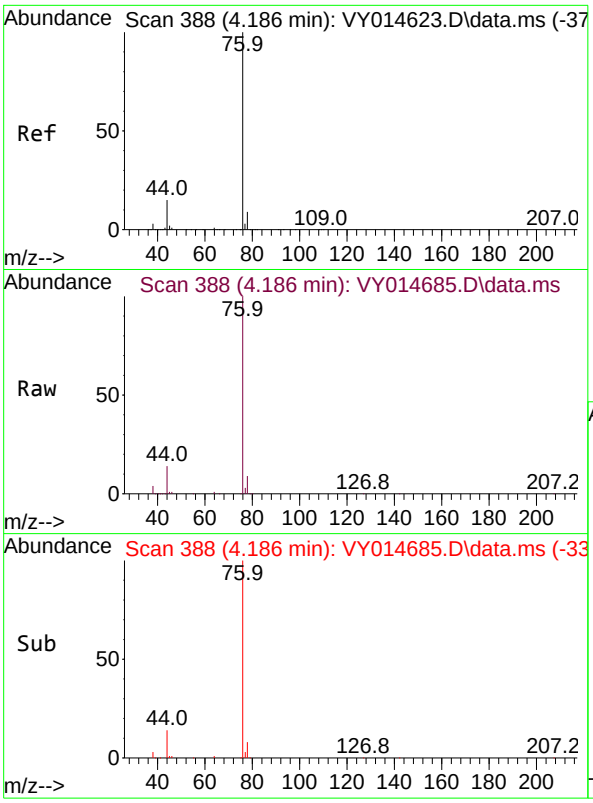


#16
Acetone
Concen: 221.926 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 43 Resp: 162187

Ion	Ratio	Lower	Upper
43	100		
58	32.5	22.7	34.1

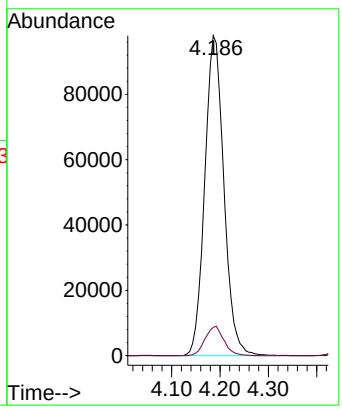




#17
Carbon Disulfide
Concen: 47.267 ug/l
RT: 4.186 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 76 Resp: 26969

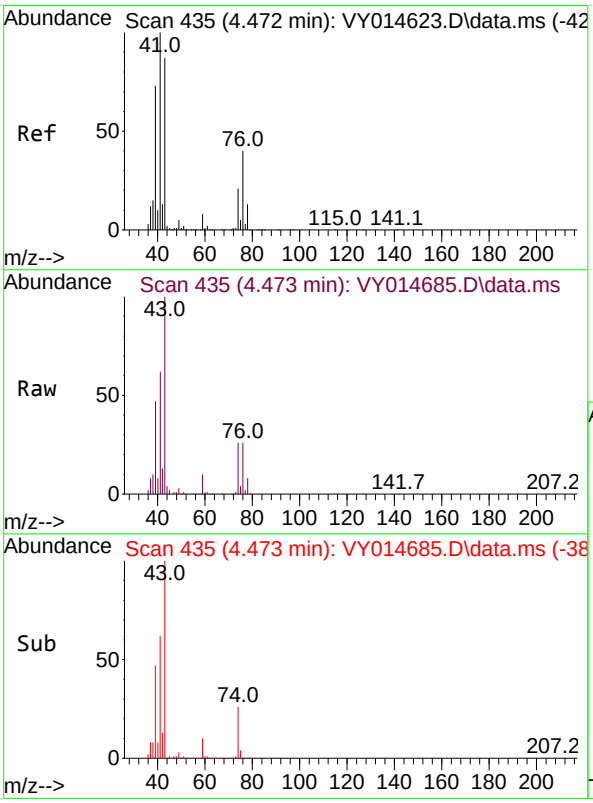
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

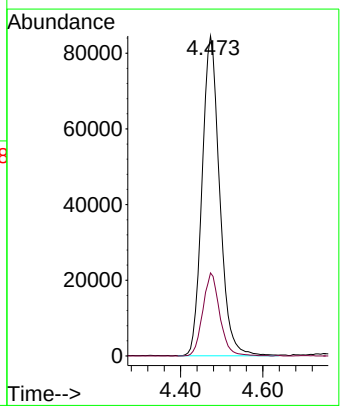
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

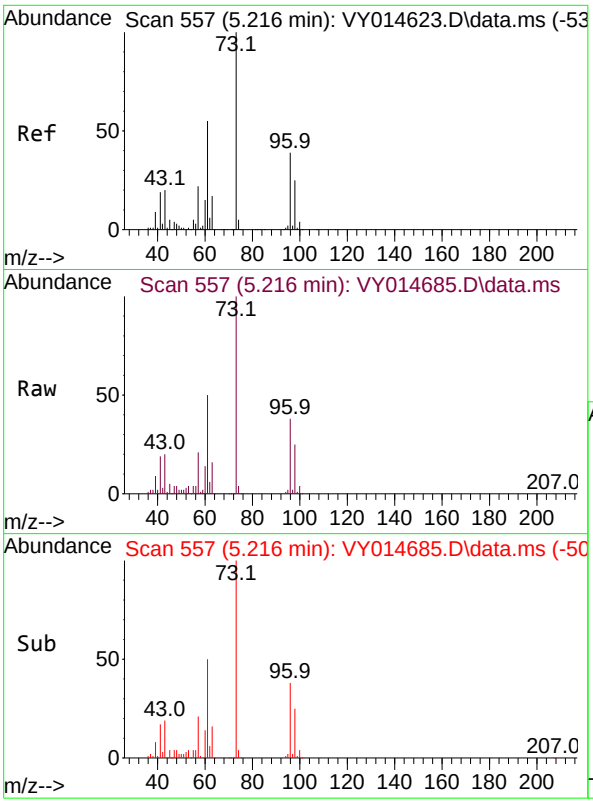


#18
Methyl Acetate
Concen: 89.131 ug/l
RT: 4.473 min Scan# 435
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 43 Resp: 249971

Ion	Ratio	Lower	Upper
43	100		
74	25.1	17.4	26.0

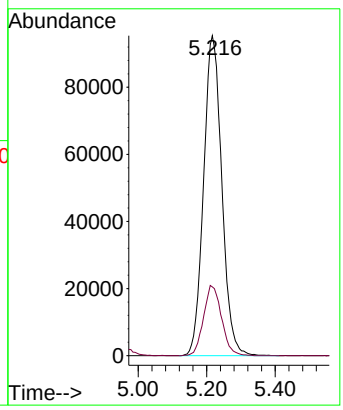




#19
Methyl tert-butyl Ether
Concen: 54.523 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 73 Resp: 35297

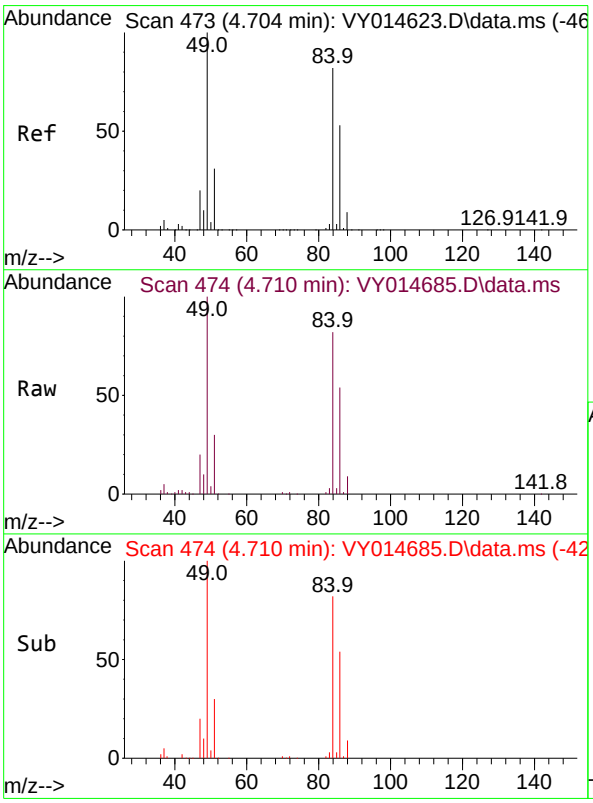
Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.3	25.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

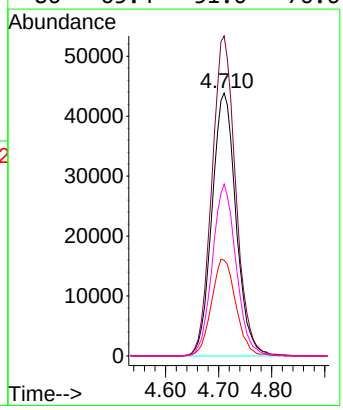
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

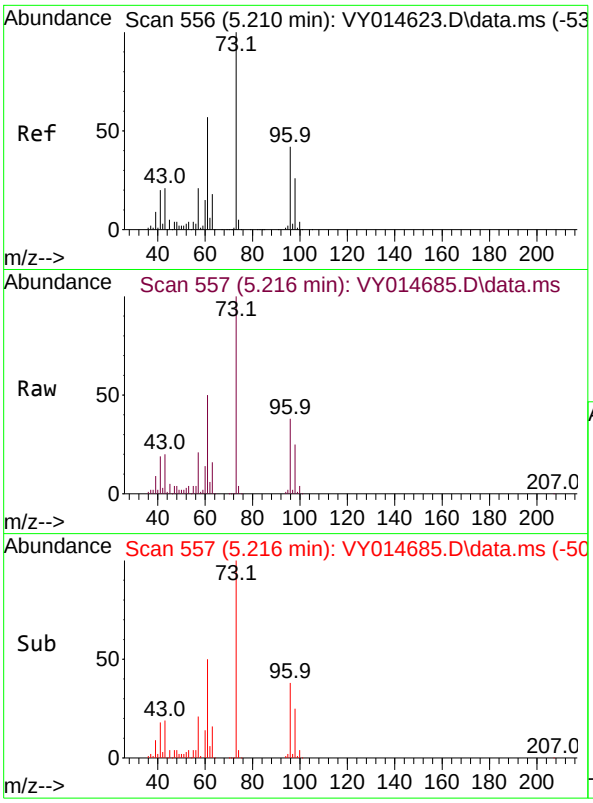


#20
Methylene Chloride
Concen: 58.926 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 84 Resp: 138108

Ion	Ratio	Lower	Upper
84	100		
49	121.8	106.9	160.3
51	36.4	33.2	49.8
86	65.4	51.0	76.6

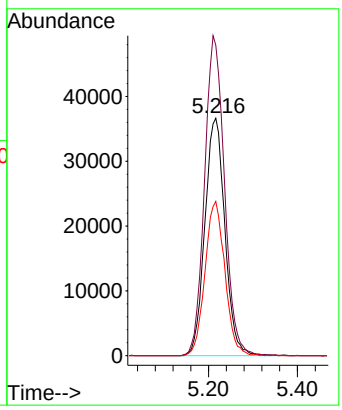




#21
trans-1,2-Dichloroethene
Concen: 50.836 ug/l
RT: 5.216 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 96 Resp: 11497

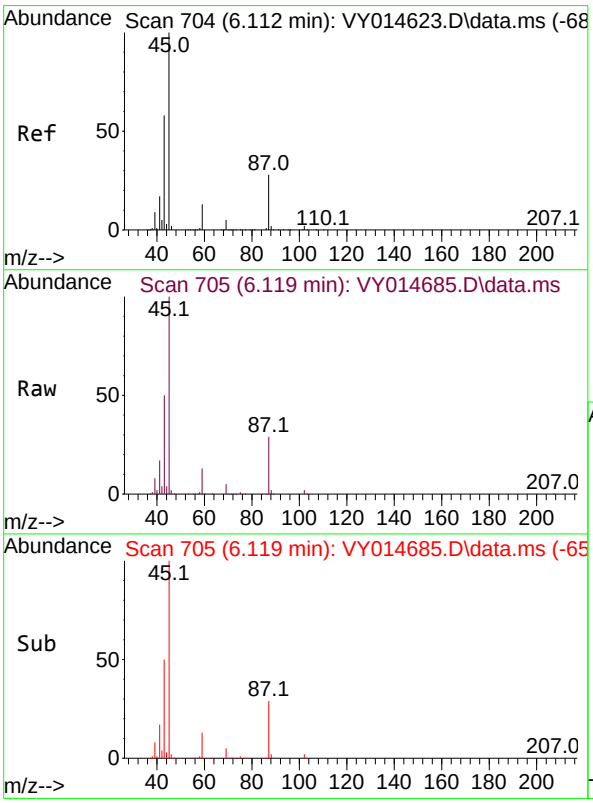
Ion	Ratio	Lower	Upper
96	100		
61	130.8	110.2	165.4
98	65.0	51.8	77.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

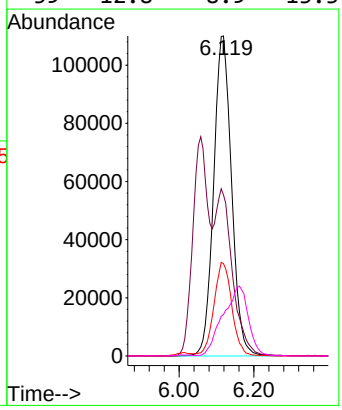
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

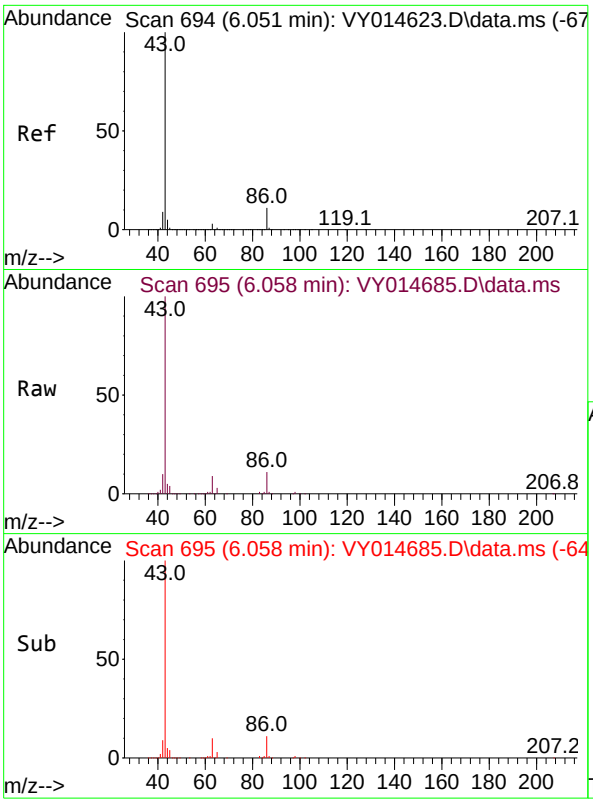


#22
Diisopropyl ether
Concen: 51.009 ug/l
RT: 6.119 min Scan# 705
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 45 Resp: 366978

Ion	Ratio	Lower	Upper
45	100		
43	50.1	52.2	78.4#
87	28.9	21.0	31.6
59	12.8	8.9	13.3





#23
Vinyl Acetate
Concen: 52.148 ug/l
RT: 6.058 min Scan# 6
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

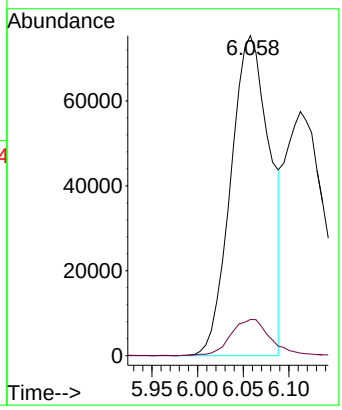
Tgt Ion: 43 Resp: 22451

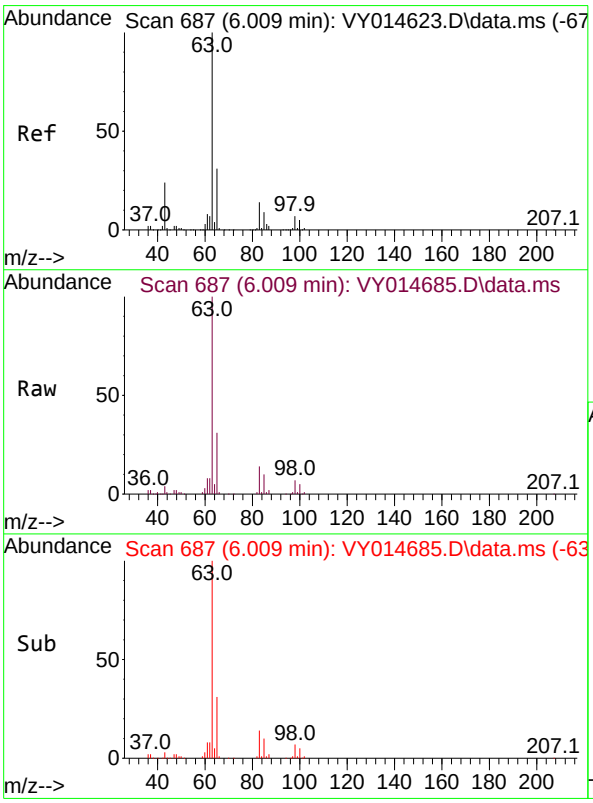
Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.5	11.3#

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

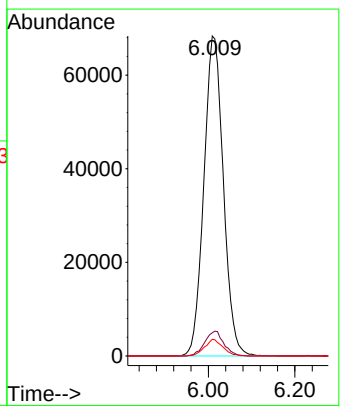


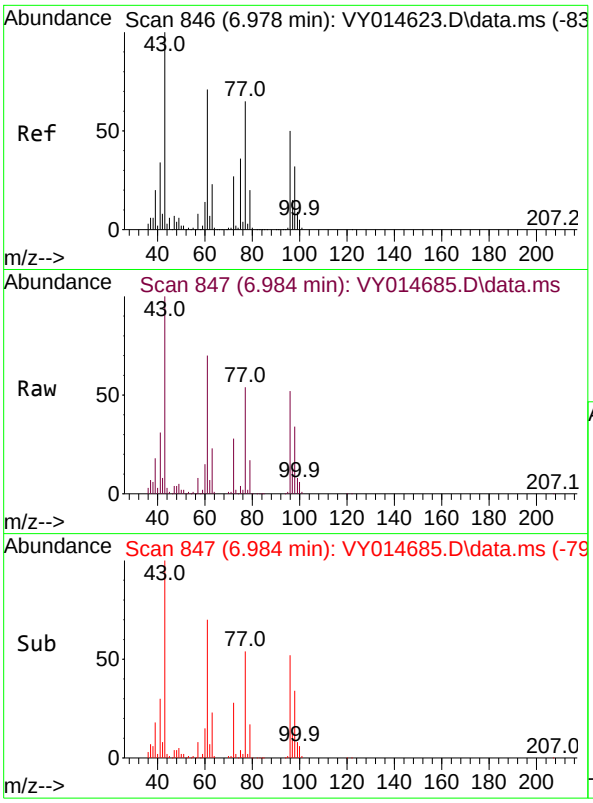


#24
1,1-Dichloroethane
Concen: 51.885 ug/l
RT: 6.009 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 63 Resp: 213584

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.1	9.4
100	5.2	1.8	5.5





#25
2-Butanone
Concen: 242.856 ug/l
RT: 6.984 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

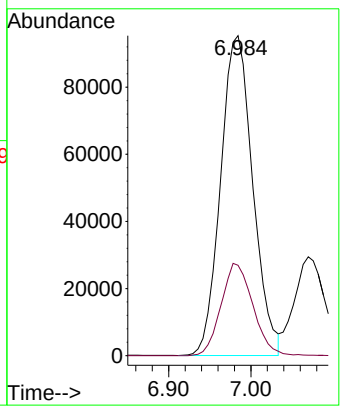
Tgt Ion: 43 Resp: 25965

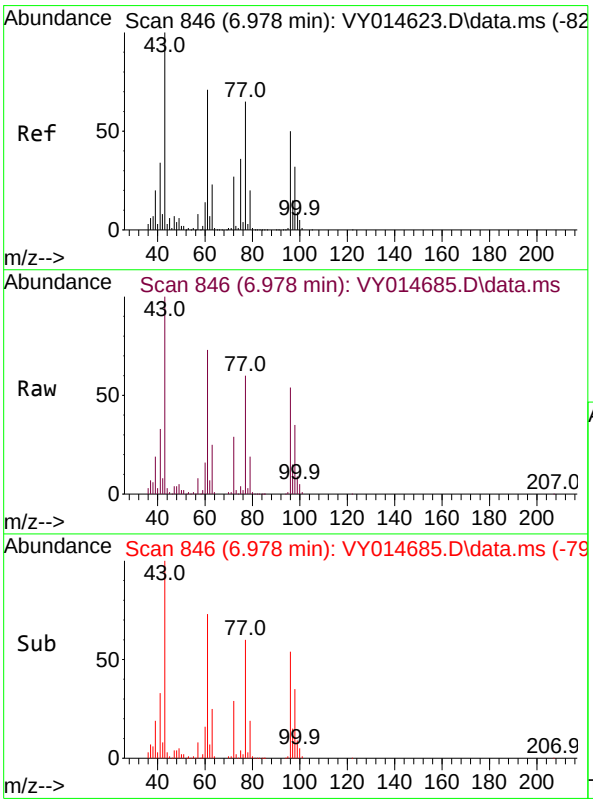
Ion	Ratio	Lower	Upper
43	100		
72	28.3	20.5	30.7

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

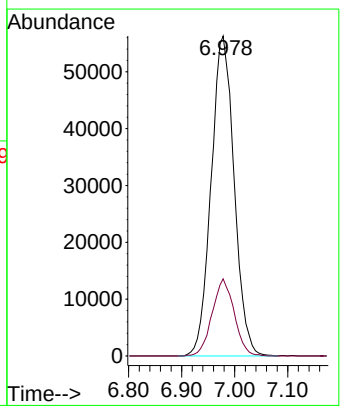


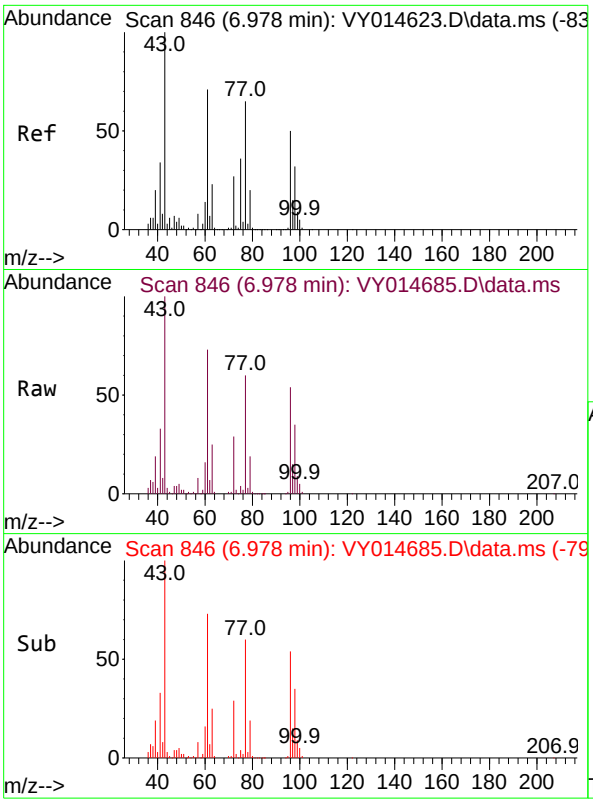


#26
2,2-Dichloropropane
Concen: 43.231 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 77 Resp: 169606

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.9	32.9





#27
cis-1,2-Dichloroethene
Concen: 52.360 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

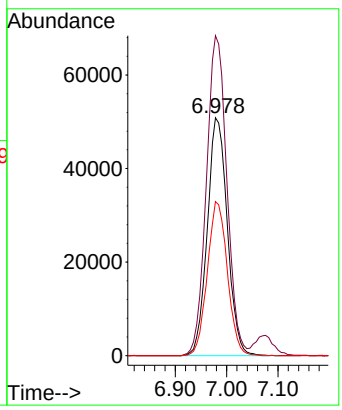
Tgt Ion: 96 Resp: 13784

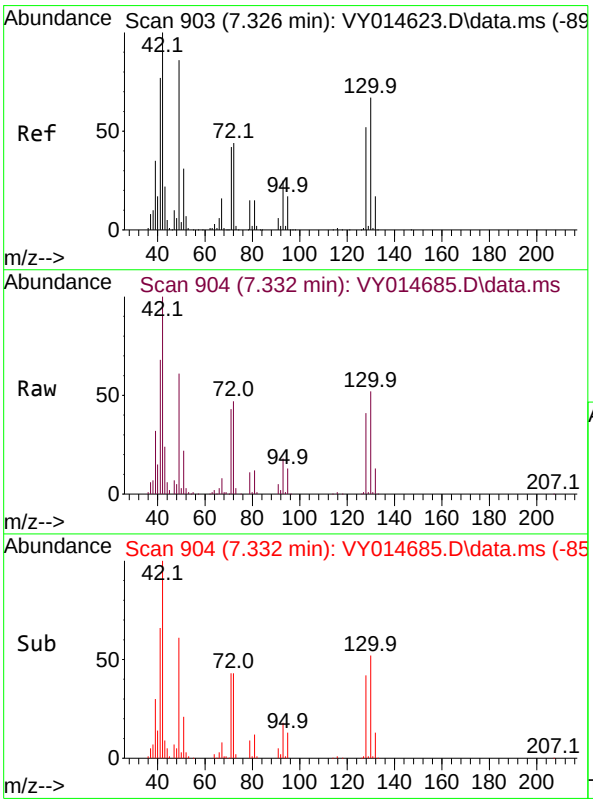
Ion	Ratio	Lower	Upper
96	100		
61	137.2	0.0	301.4
98	64.7	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

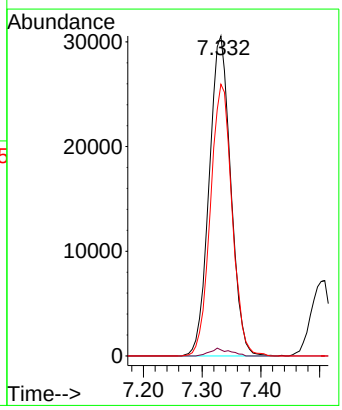


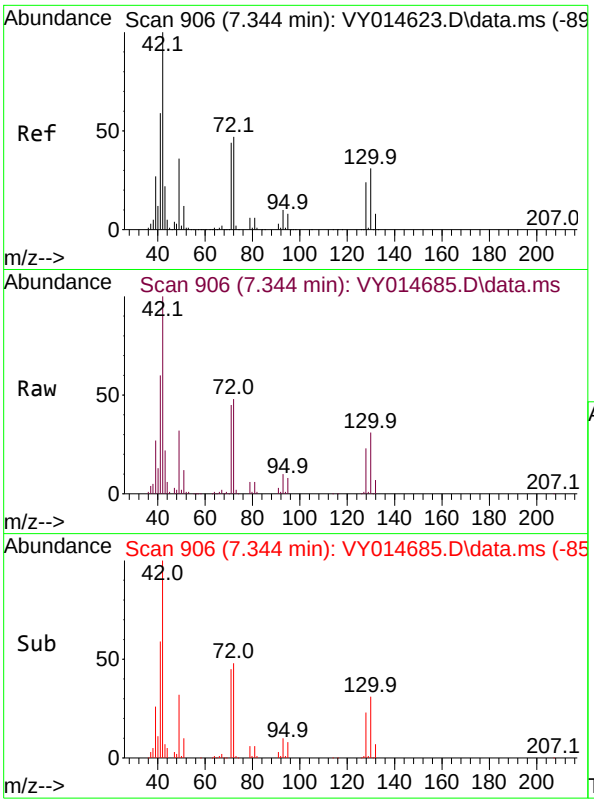


#28
Bromochloromethane
Concen: 43.947 ug/l
RT: 7.332 min Scan# 904
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 49 Resp: 77913

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.6
130	85.1	60.7	91.1

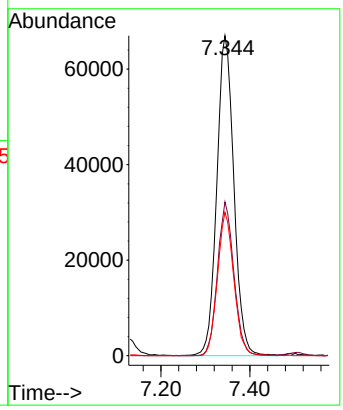




#29
Tetrahydrofuran
Concen: 270.945 ug/l
RT: 7.344 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 42 Resp: 17837

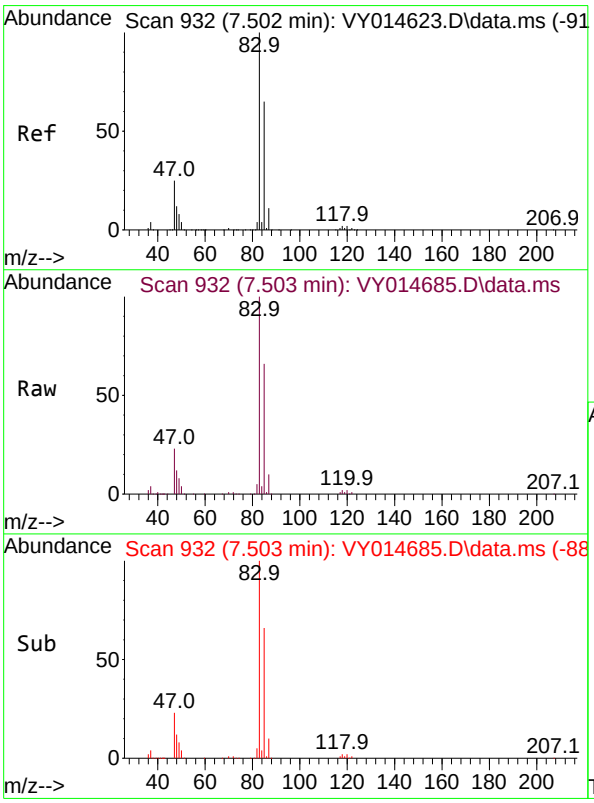
Ion	Ratio	Lower	Upper
42	100		
72	46.2	32.8	49.2
71	43.0	31.0	46.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

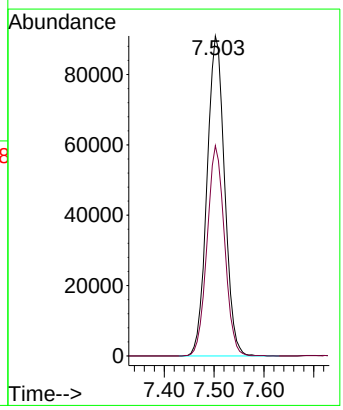
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

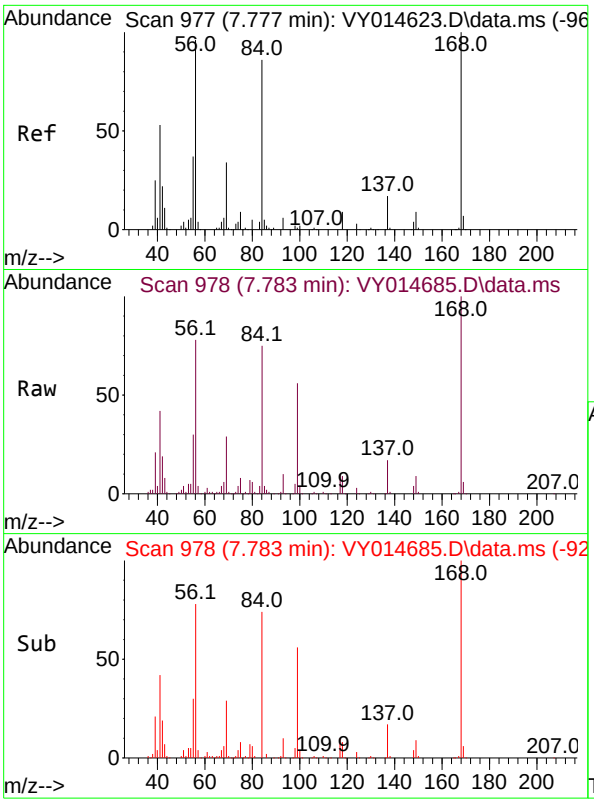


#30
Chloroform
Concen: 52.462 ug/l
RT: 7.503 min Scan# 932
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 83 Resp: 222696

Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.7	74.5

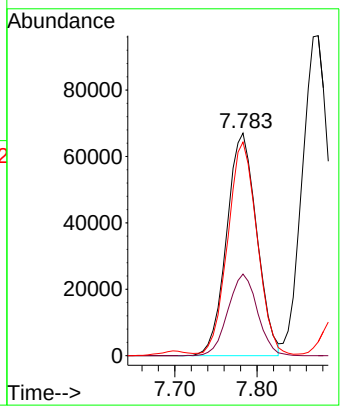




#31
Cyclohexane
Concen: 44.566 ug/l
RT: 7.783 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 56 Resp: 17061

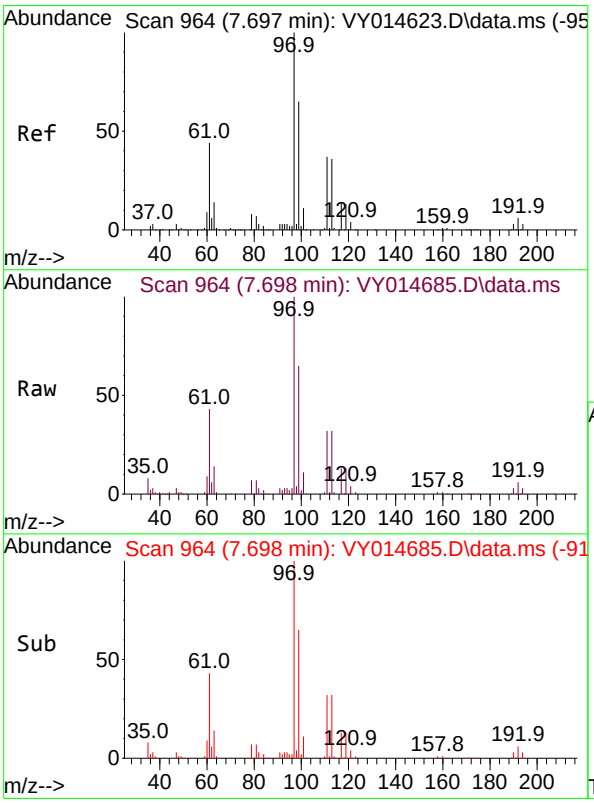
Ion	Ratio	Lower	Upper
56	100		
69	36.7	27.8	41.6
84	94.0	66.4	99.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

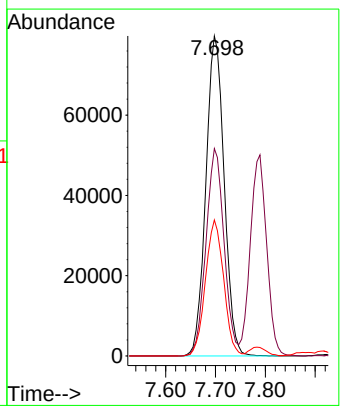
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

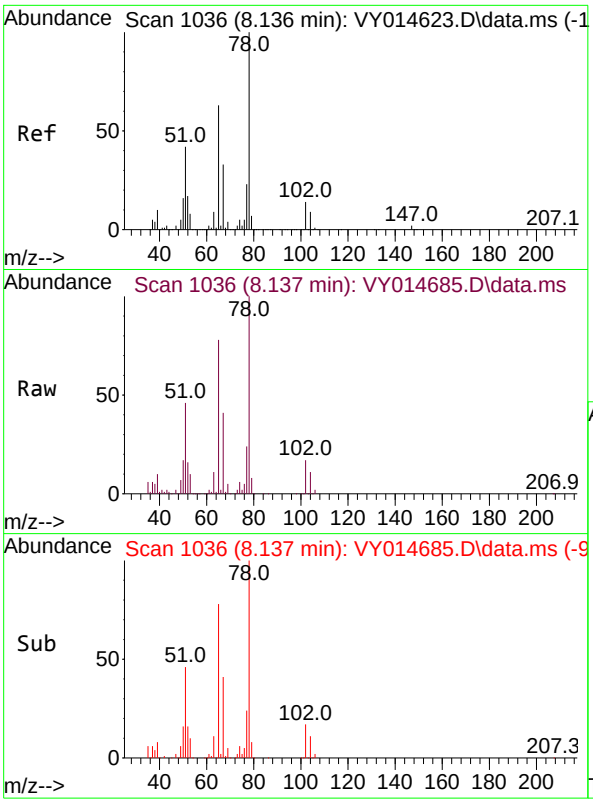


#32
1,1,1-Trichloroethane
Concen: 53.207 ug/l
RT: 7.698 min Scan# 964
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 97 Resp: 203279

Ion	Ratio	Lower	Upper
97	100		
99	64.2	50.8	76.2
61	42.4	35.1	52.7

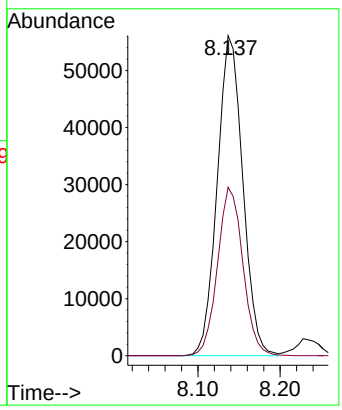




#33
1,2-Dichloroethane-d4
Concen: 52.601 ug/l
RT: 8.137 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 65 Resp: 12131

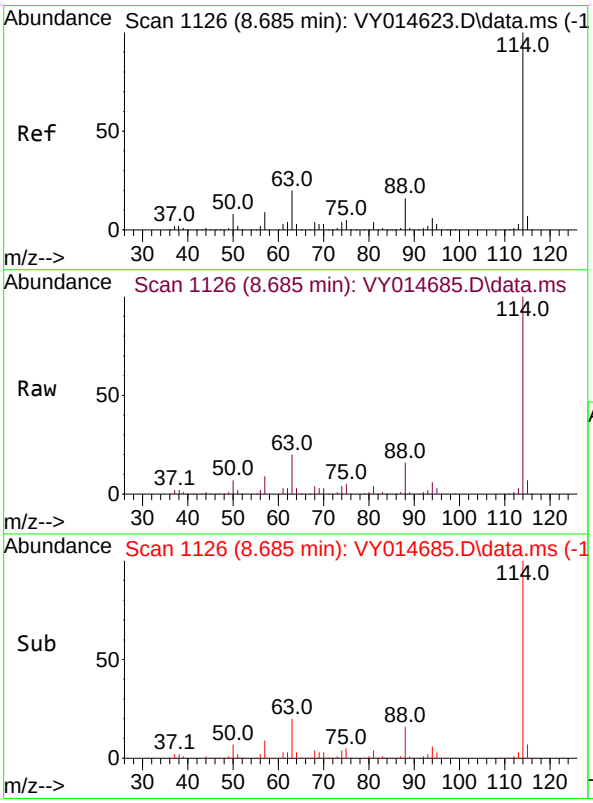
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	101.8



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED

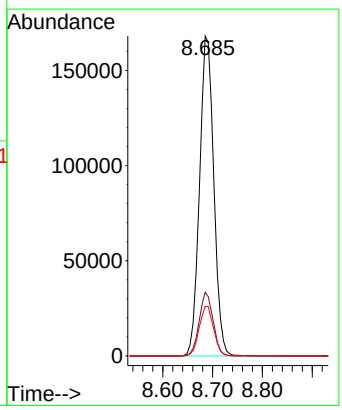
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

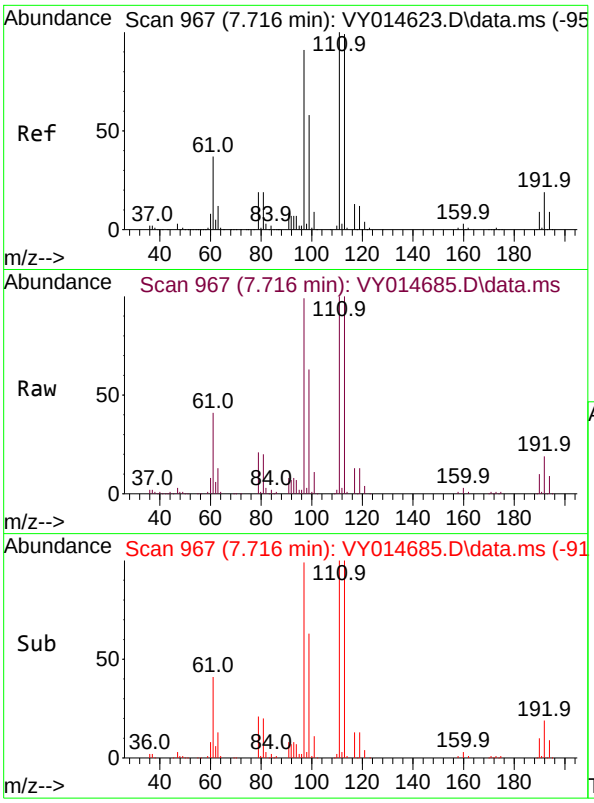


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:114 Resp: 333321

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.4
88	15.5	0.0	30.6

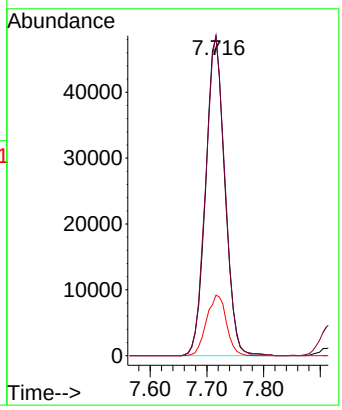




#35
Dibromofluoromethane
Concen: 53.572 ug/l
RT: 7.716 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:113 Resp: 11367

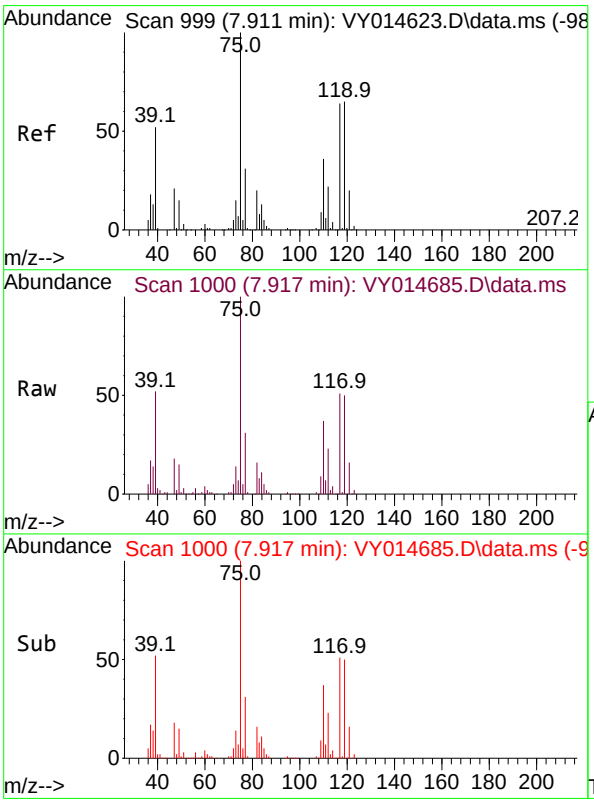
Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.3	121.9
192	19.7	16.9	25.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

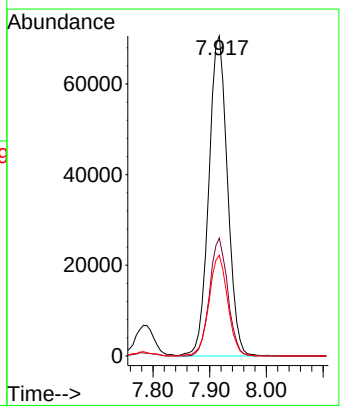
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

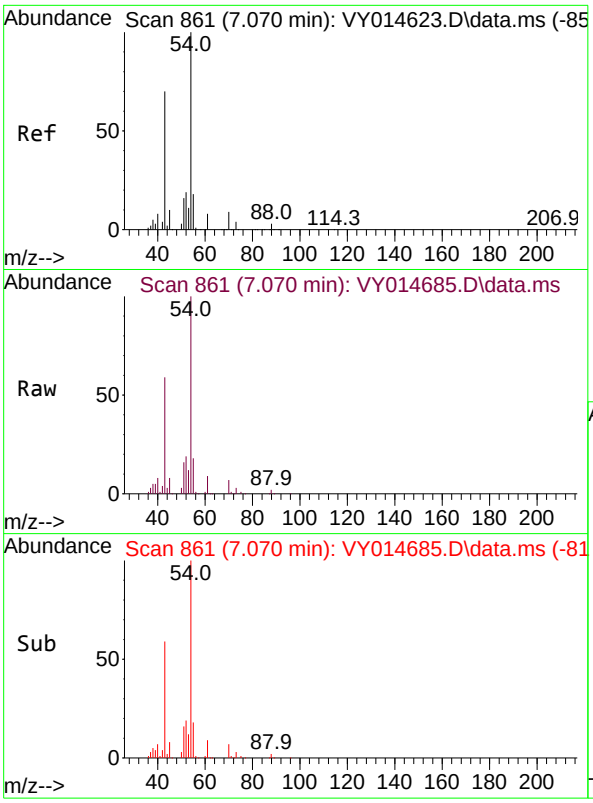


#36
1,1-Dichloropropene
Concen: 50.951 ug/l
RT: 7.917 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 75 Resp: 161675

Ion	Ratio	Lower	Upper
75	100		
110	35.8	17.8	53.5
77	31.6	24.4	36.6





#37
Ethyl Acetate
Concen: 36.003 ug/l
RT: 7.070 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

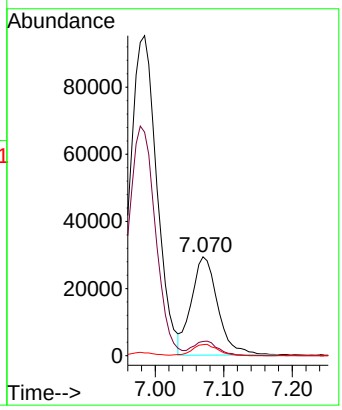
Tgt Ion: 43 Resp: 7865

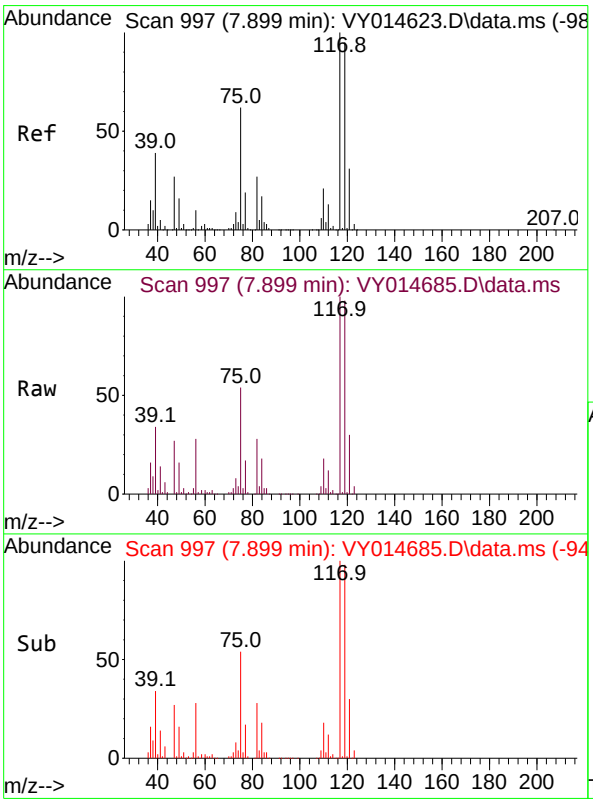
Ion	Ratio	Lower	Upper
43	100		
61	14.6	10.1	15.1
70	11.1	7.1	10.7

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

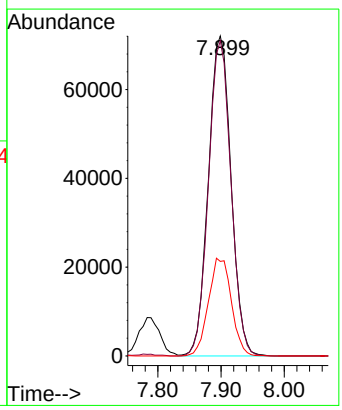


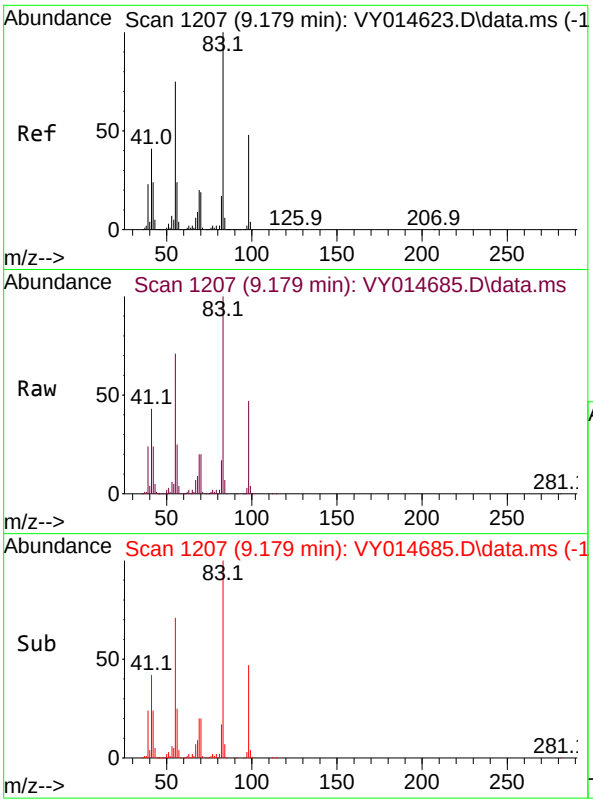


#38
Carbon Tetrachloride
Concen: 53.641 ug/l
RT: 7.899 min Scan# 997
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:117 Resp: 179928

Ion	Ratio	Lower	Upper
117	100		
119	98.5	76.4	114.6
121	29.5	25.8	38.6





#39
Methylcyclohexane
Concen: 44.347 ug/l
RT: 9.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

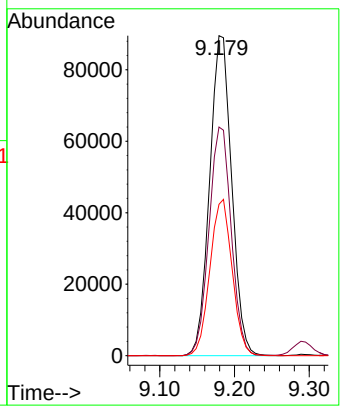
Tgt Ion: 83 Resp: 18333

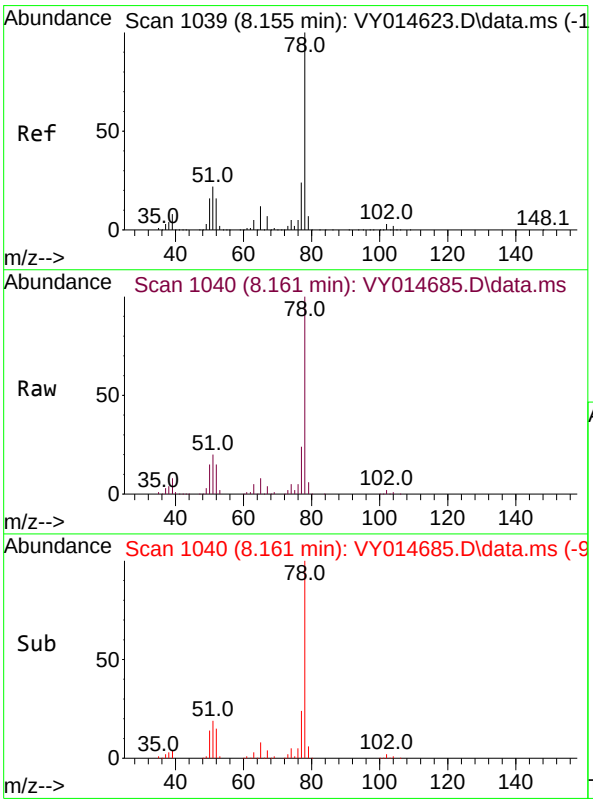
Ion	Ratio	Lower	Upper
83	100		
55	71.4	63.0	94.4
98	47.3	37.4	56.2

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

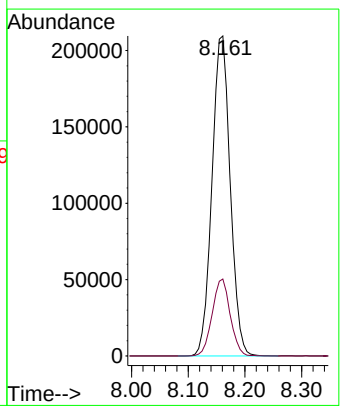


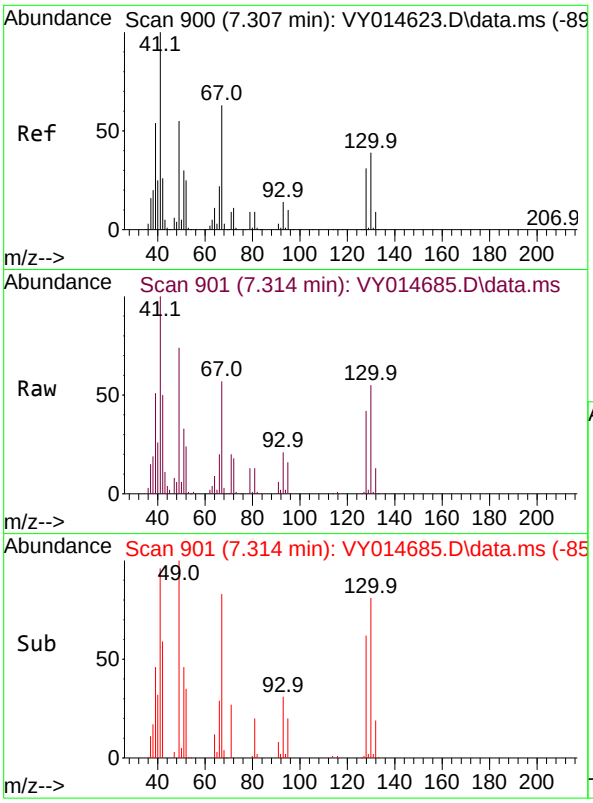


#40
Benzene
Concen: 51.833 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 78 Resp: 467775

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.6

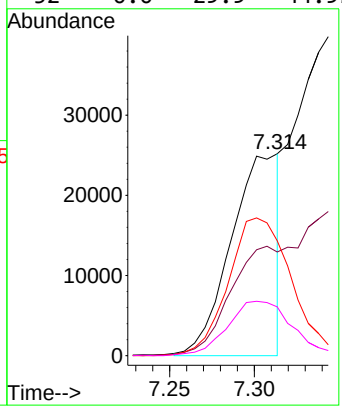




#41
Methacrylonitrile
Concen: 44.562 ug/l m
RT: 7.314 min Scan# 9
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 41 Resp: 5007

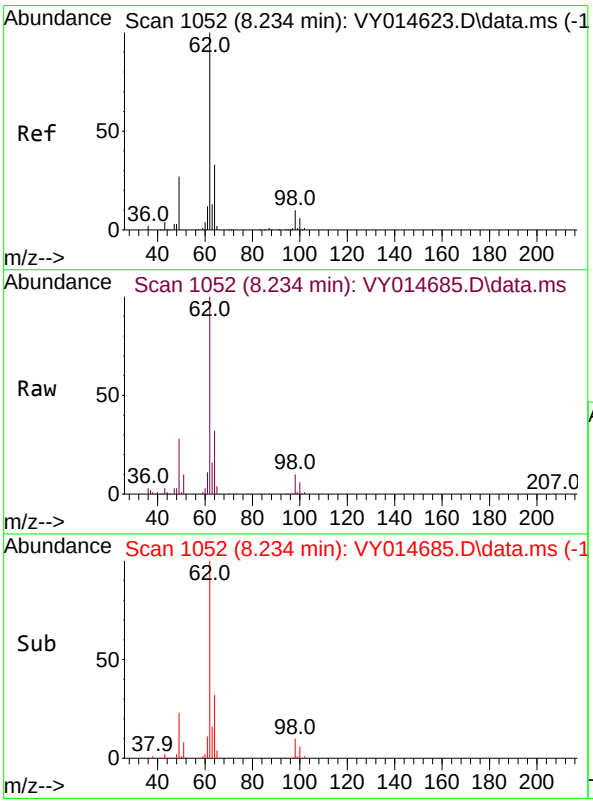
Ion	Ratio	Lower	Upper
41	100		
39	78.5	52.1	78.1#
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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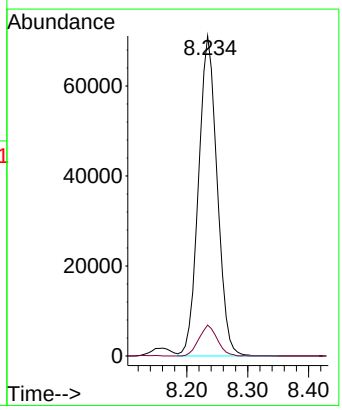
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

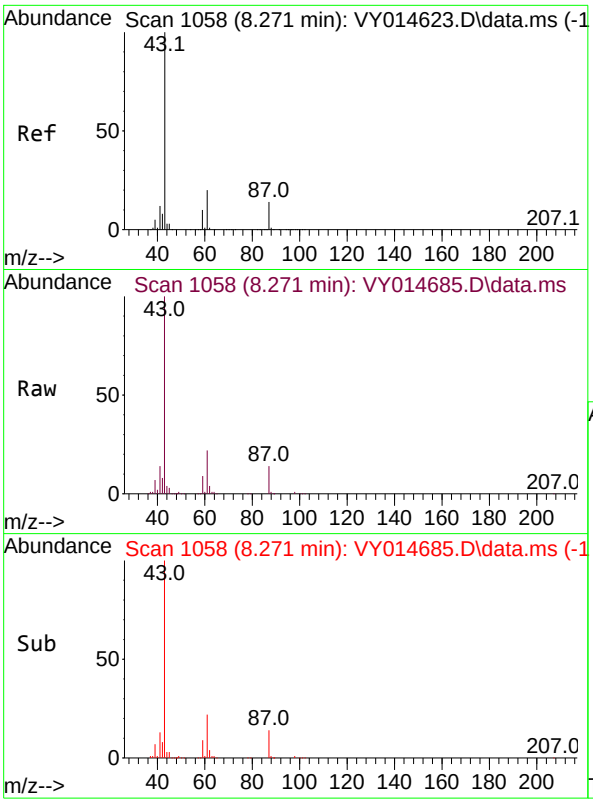


#42
1,2-Dichloroethane
Concen: 52.919 ug/l
RT: 8.234 min Scan# 1052
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 62 Resp: 151233

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	15.8





#43
Isopropyl Acetate
Concen: 41.147 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

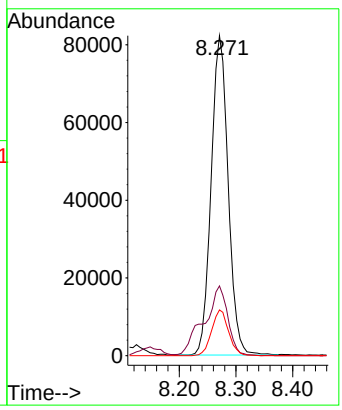
Tgt Ion: 43 Resp: 17123

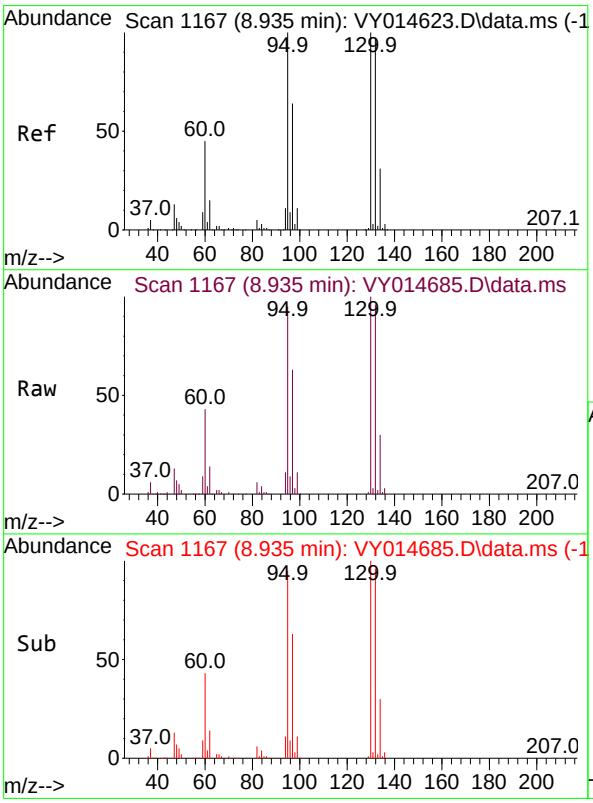
Ion	Ratio	Lower	Upper
43	100		
61	30.5	21.1	31.7
87	14.3	9.8	14.8

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

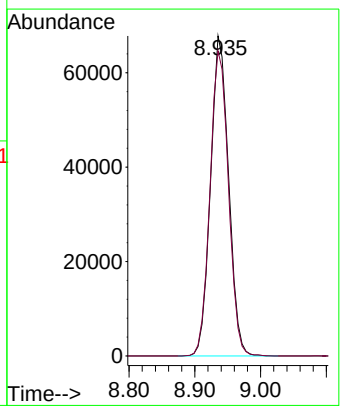


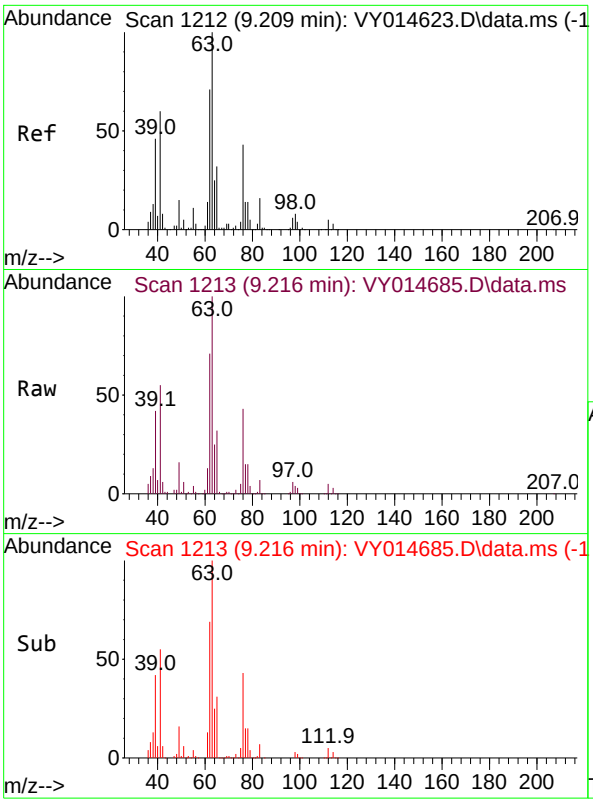


#44
Trichloroethene
Concen: 51.295 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:130 Resp: 129519

Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	196.0

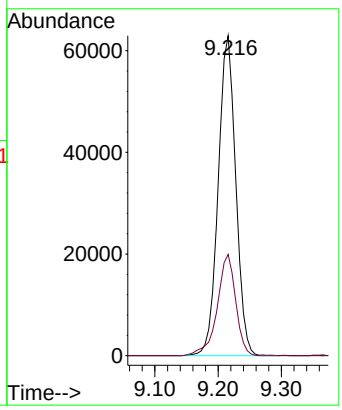




#45
1,2-Dichloropropane
Concen: 51.353 ug/l
RT: 9.216 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 63 Resp: 12101

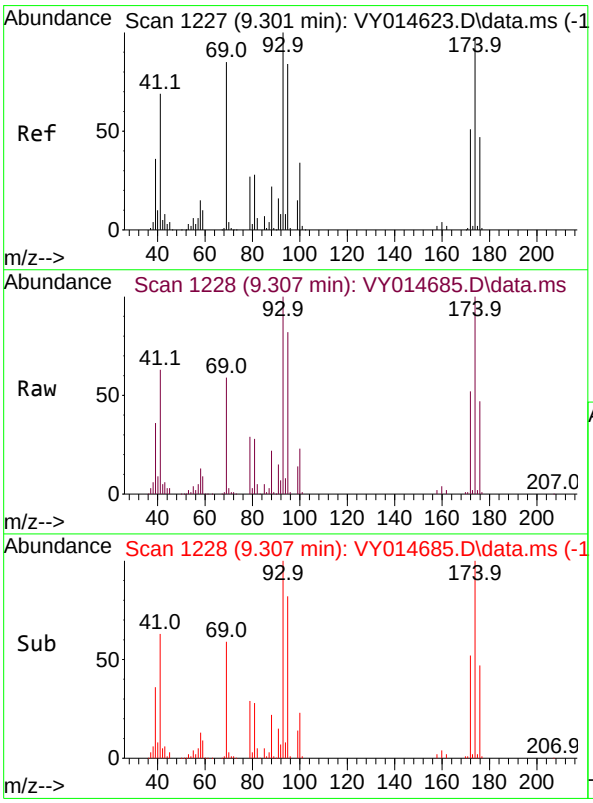
Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.8	35.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

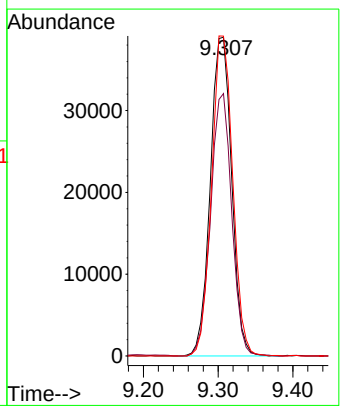
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

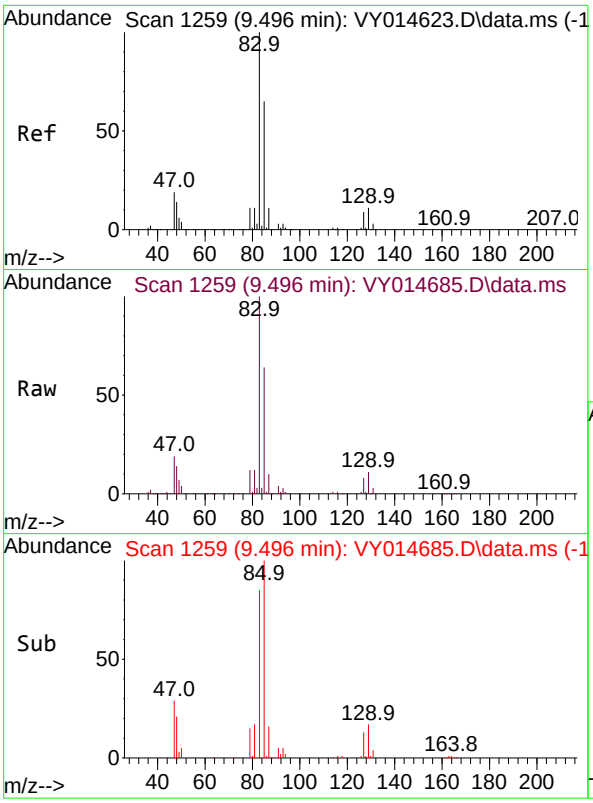


#46
Dibromomethane
Concen: 54.102 ug/l
RT: 9.307 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 93 Resp: 77343

Ion	Ratio	Lower	Upper
93	100		
95	81.5	66.6	100.0
174	99.4	84.8	127.2

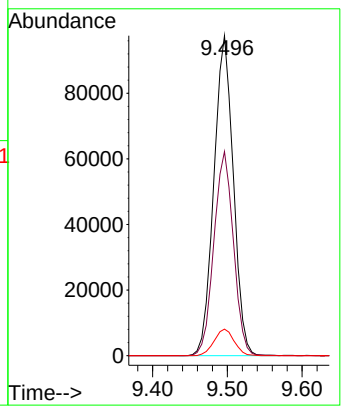




#47
Bromodichloromethane
Concen: 52.471 ug/l
RT: 9.496 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 83 Resp: 17679

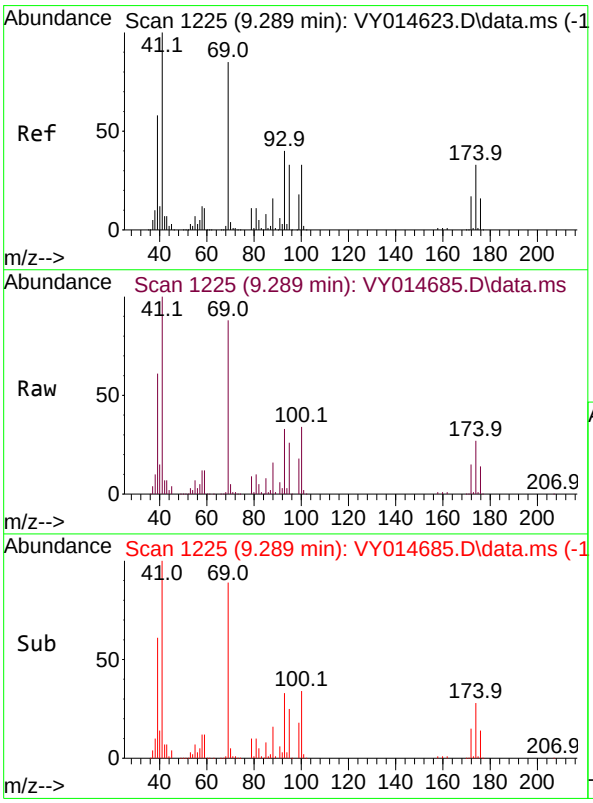
Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.1	75.1
127	8.3	7.1	10.7



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

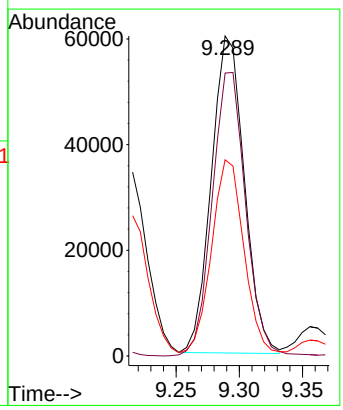
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

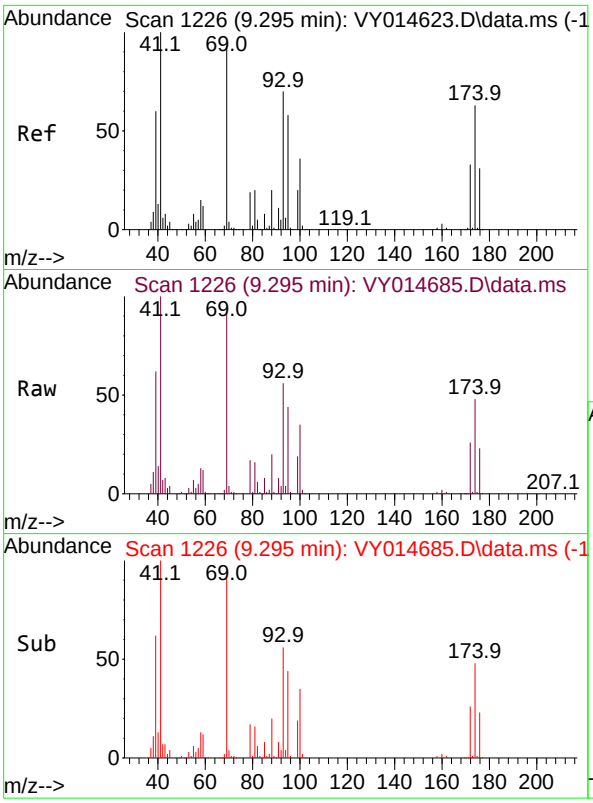


#48
Methyl methacrylate
Concen: 58.037 ug/l
RT: 9.289 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 41 Resp: 108681

Ion	Ratio	Lower	Upper
41	100		
69	91.3	64.5	96.7
39	61.7	50.8	76.2





#49
1,4-Dioxane
Concen: 1162.728 ug/l
RT: 9.295 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

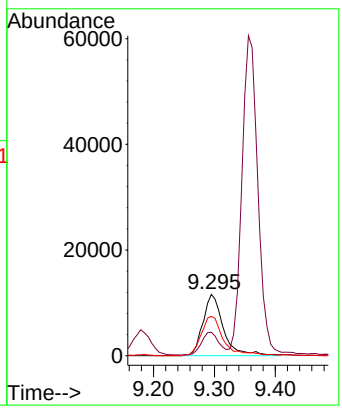
Tgt Ion: 88 Resp: 2710

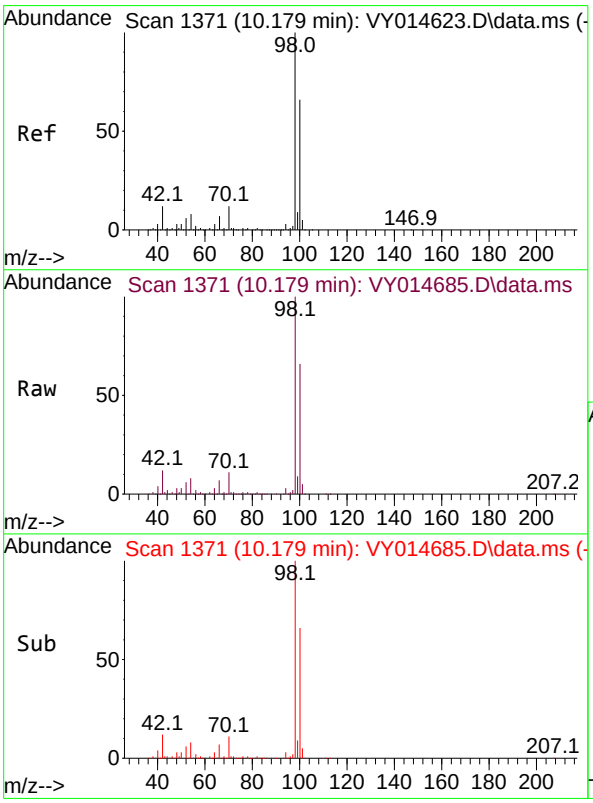
Ion	Ratio	Lower	Upper
88	100		
43	31.8	0.0	0.0#
58	69.2	30.9	46.3#

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

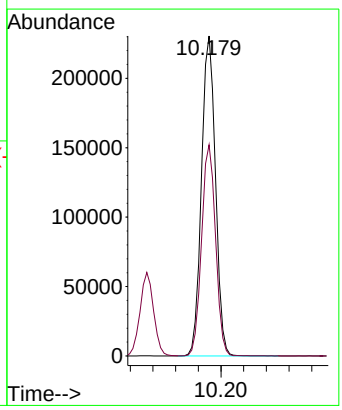


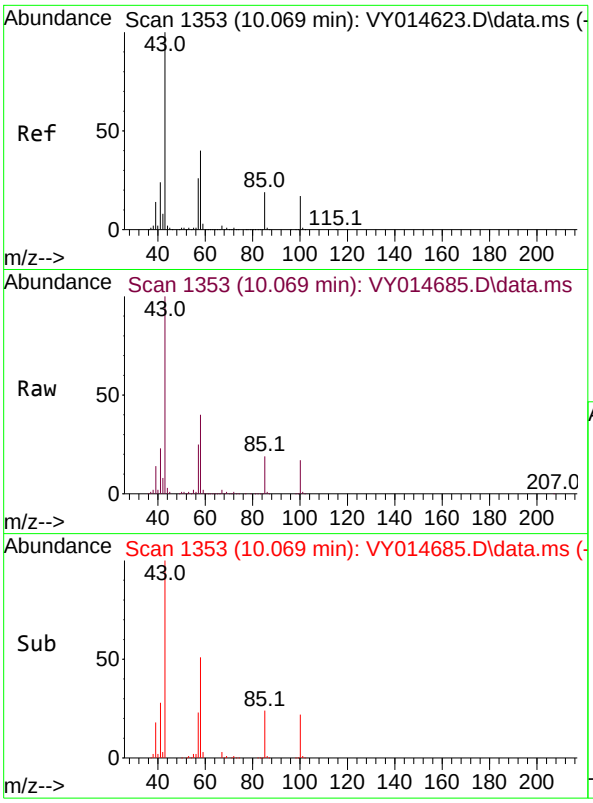


#50
Toluene-d8
Concen: 50.341 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 98 Resp: 393810

Ion	Ratio	Lower	Upper
98	100		
100	66.2	50.1	75.1

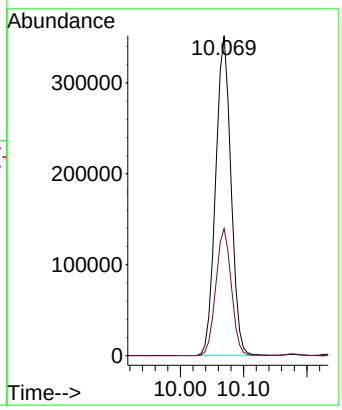




#51
4-Methyl-2-Pentanone
Concen: 270.758 ug/l
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 43 Resp: 59162

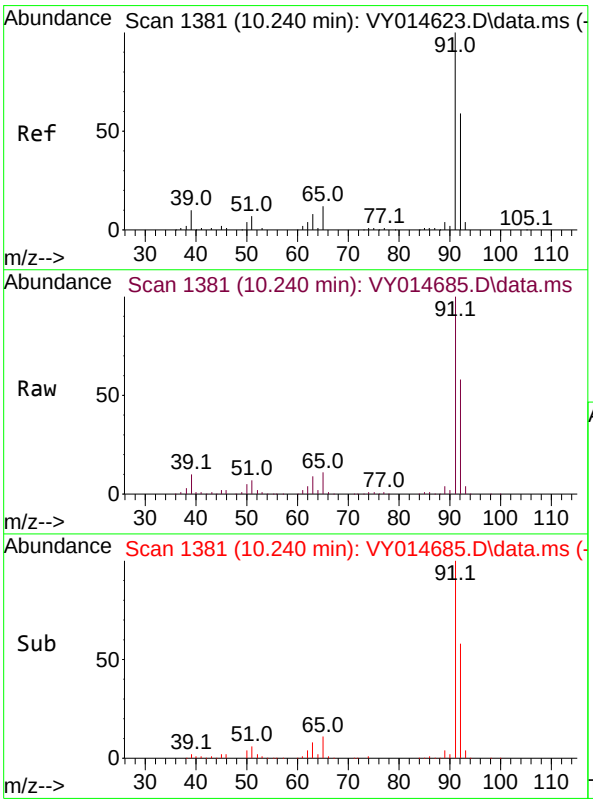
Ion	Ratio	Lower	Upper
43	100		
58	40.1	29.0	43.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

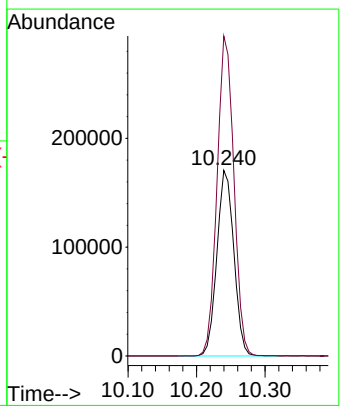
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

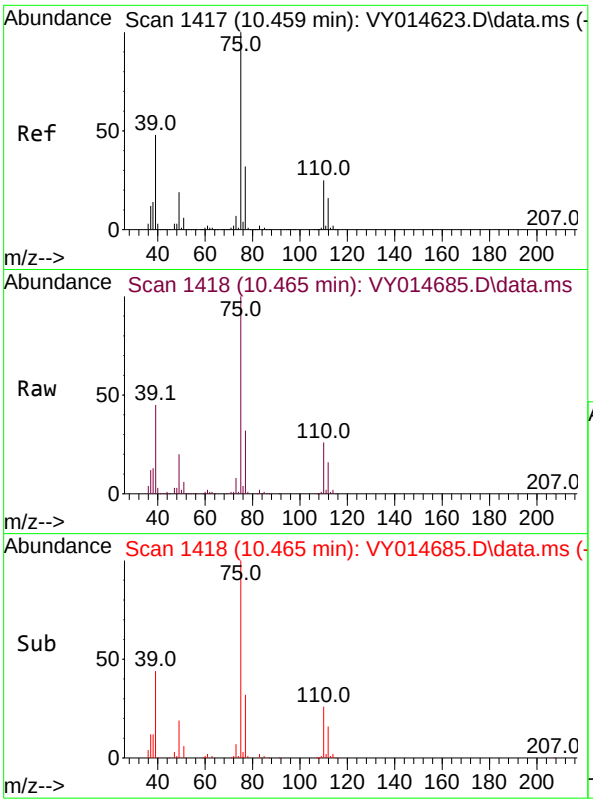


#52
Toluene
Concen: 50.614 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 92 Resp: 292286

Ion	Ratio	Lower	Upper
92	100		
91	171.0	143.8	215.6

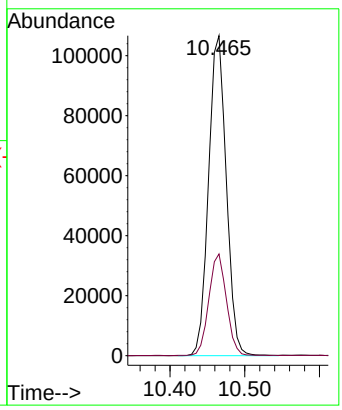




#53
t-1,3-Dichloropropene
Concen: 47.791 ug/l
RT: 10.465 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 75 Resp: 17613

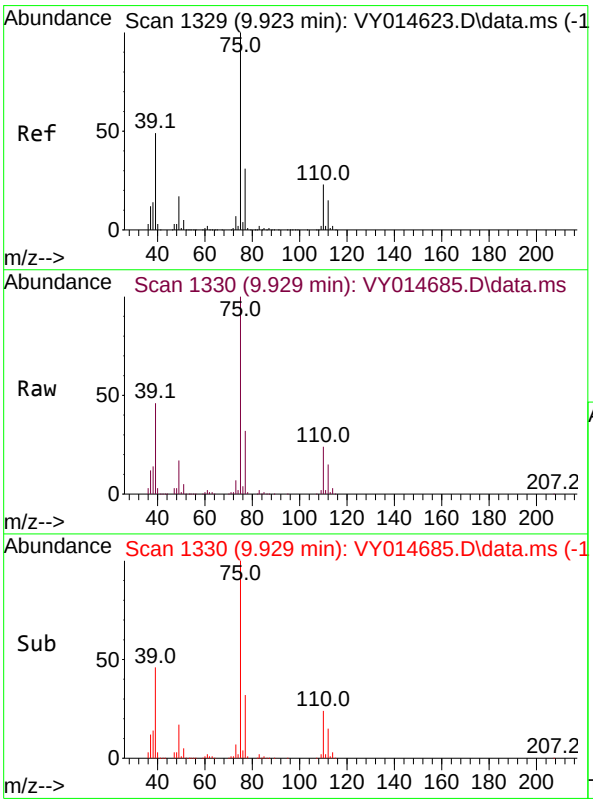
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

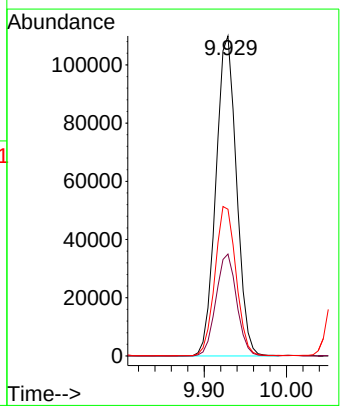
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

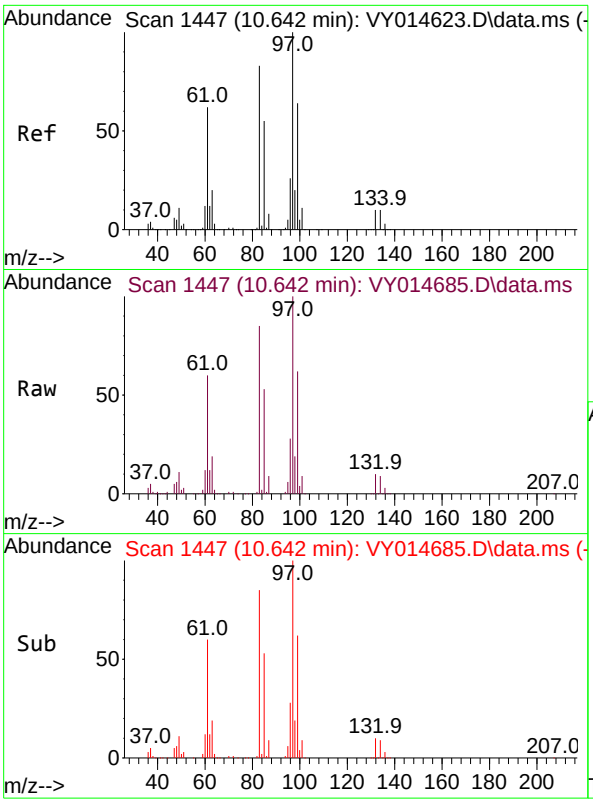


#54
cis-1,3-Dichloropropene
Concen: 47.739 ug/l
RT: 9.929 min Scan# 1330
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 75 Resp: 191333

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.2	36.4
39	45.7	42.2	63.4

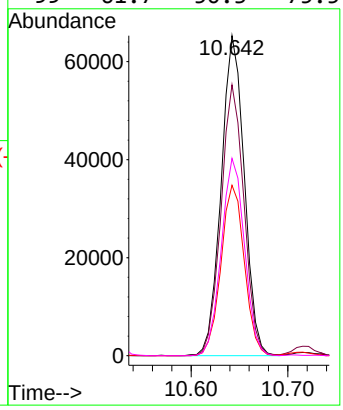




#55
1,1,2-Trichloroethane
Concen: 54.412 ug/l
RT: 10.642 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 97 Resp: 10835

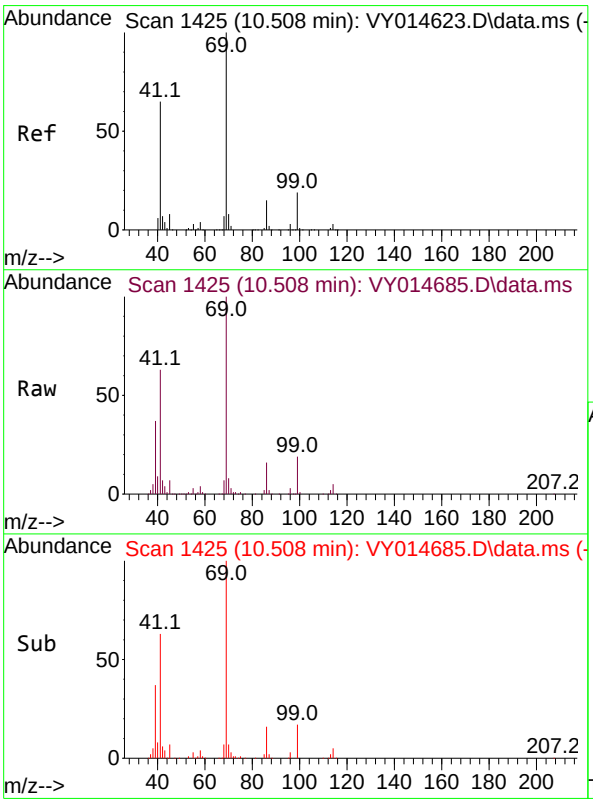
Ion	Ratio	Lower	Upper
97	100		
83	84.7	72.0	108.0
85	53.3	45.4	68.0
99	61.7	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

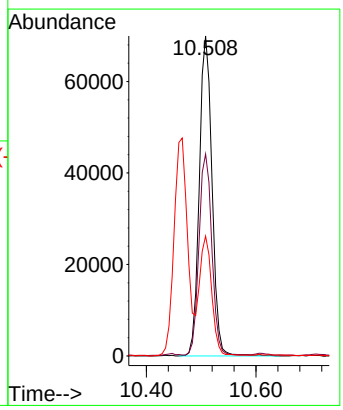
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

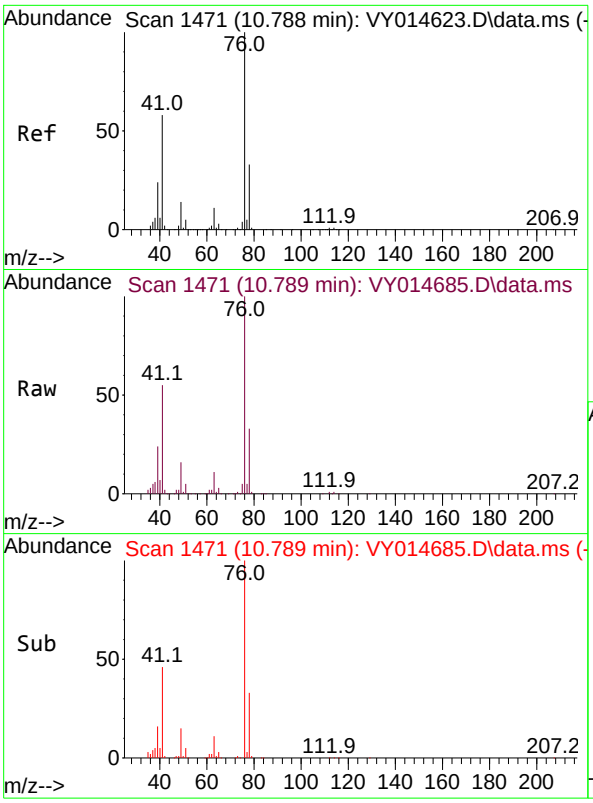


#56
Ethyl methacrylate
Concen: 37.094 ug/l
RT: 10.508 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 69 Resp: 112785

Ion	Ratio	Lower	Upper
69	100		
41	63.0	57.6	86.4
39	34.6	34.1	51.1

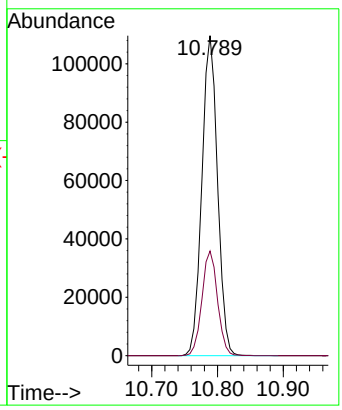




#57
1,3-Dichloropropane
Concen: 52.735 ug/l
RT: 10.789 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 76 Resp: 18113

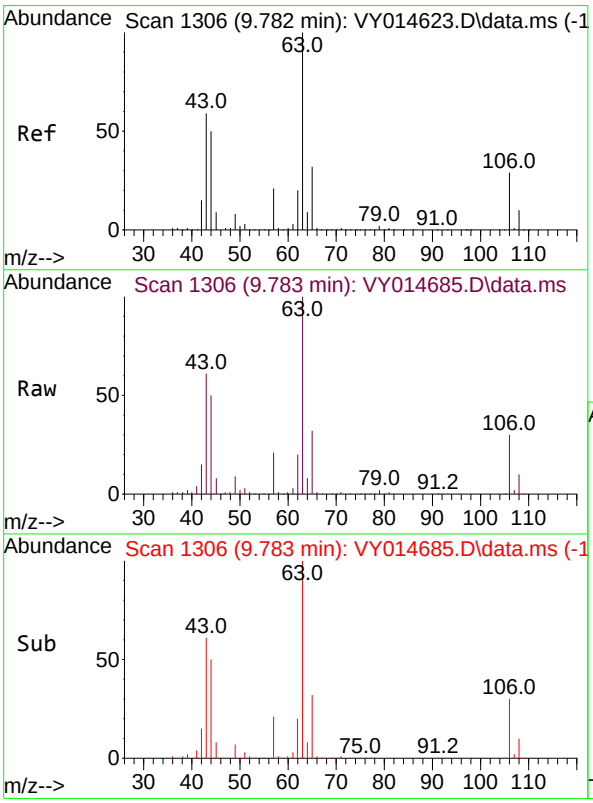
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations APPROVED

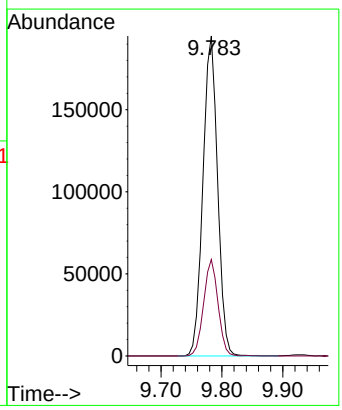
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

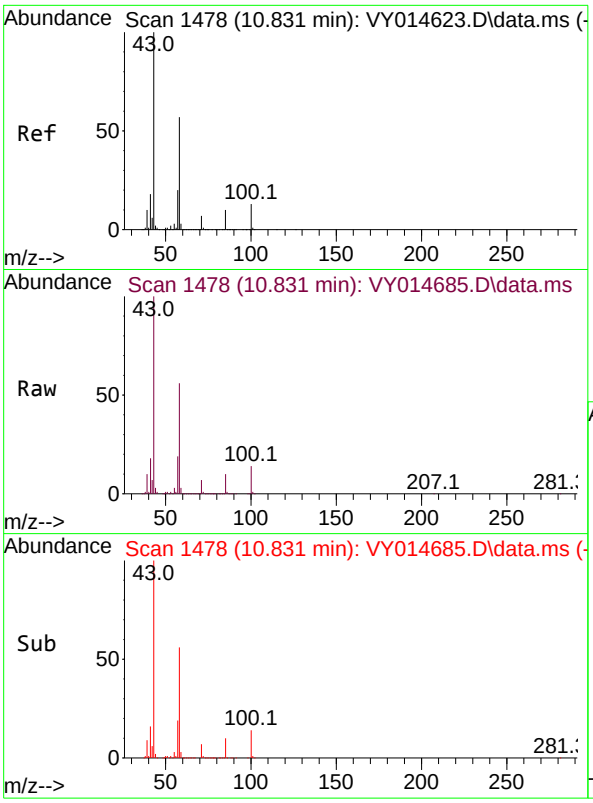


#58
2-Chloroethyl Vinyl ether
Concen: 229.730 ug/l
RT: 9.783 min Scan# 1306
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 63 Resp: 325457

Ion	Ratio	Lower	Upper
63	100		
106	29.6	21.2	31.8





#59
2-Hexanone
Concen: 242.285 ug/l
RT: 10.831 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

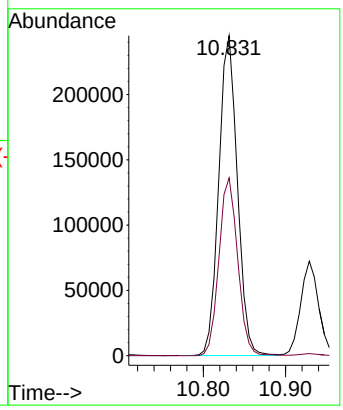
Tgt Ion: 43 Resp: 38607

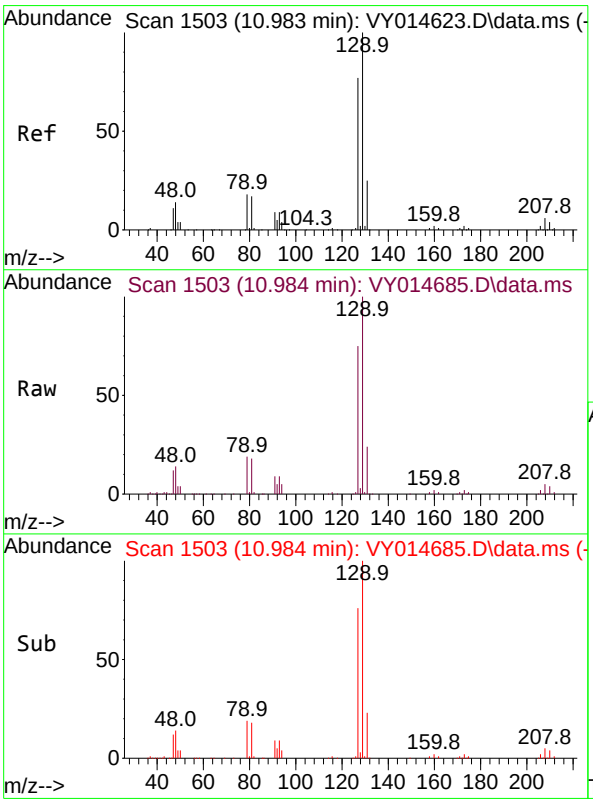
Ion	Ratio	Lower	Upper
43	100		
58	56.0	25.1	75.3

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

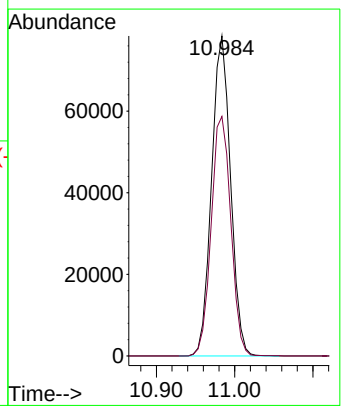


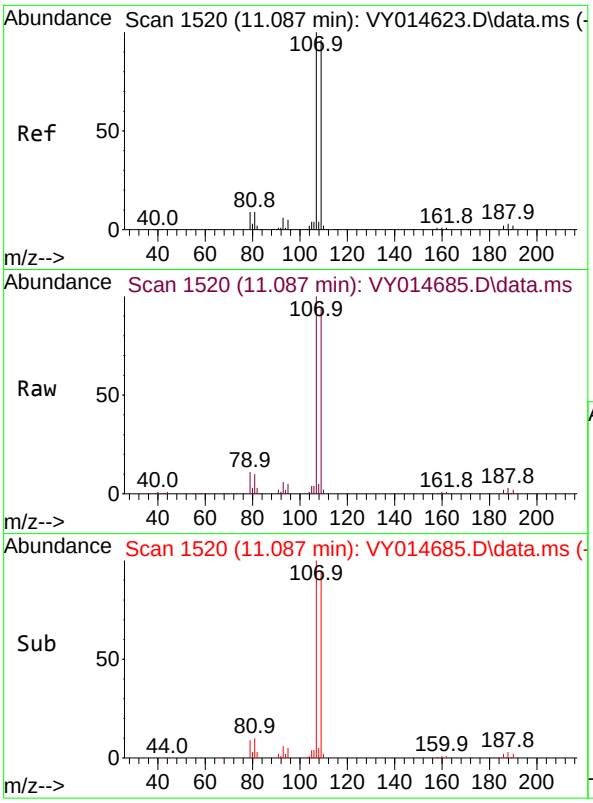


#60
Dibromochloromethane
Concen: 53.992 ug/l
RT: 10.984 min Scan# 1503
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:129 Resp: 131825

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.5	115.5

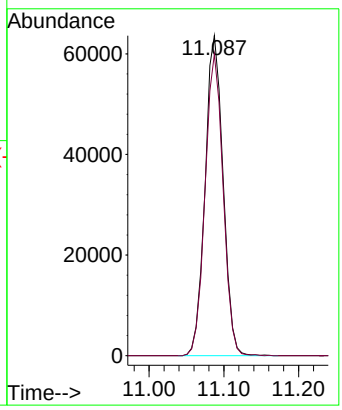




#61
1,2-Dibromoethane
Concen: 53.592 ug/l
RT: 11.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:107 Resp: 10646

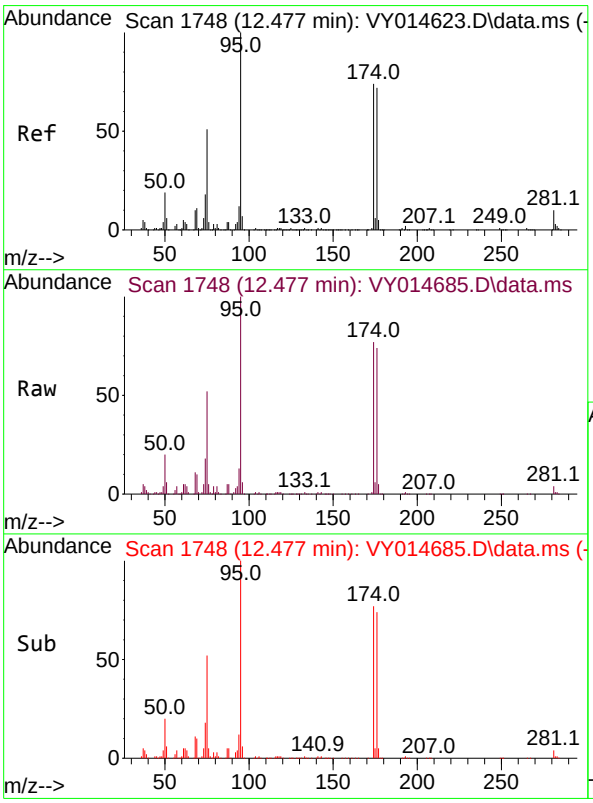
Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

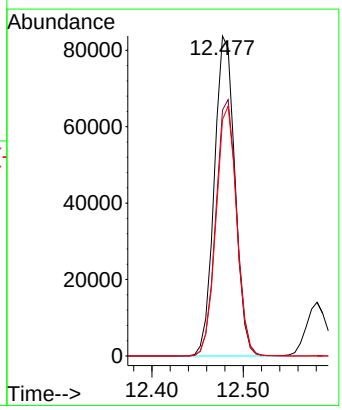
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

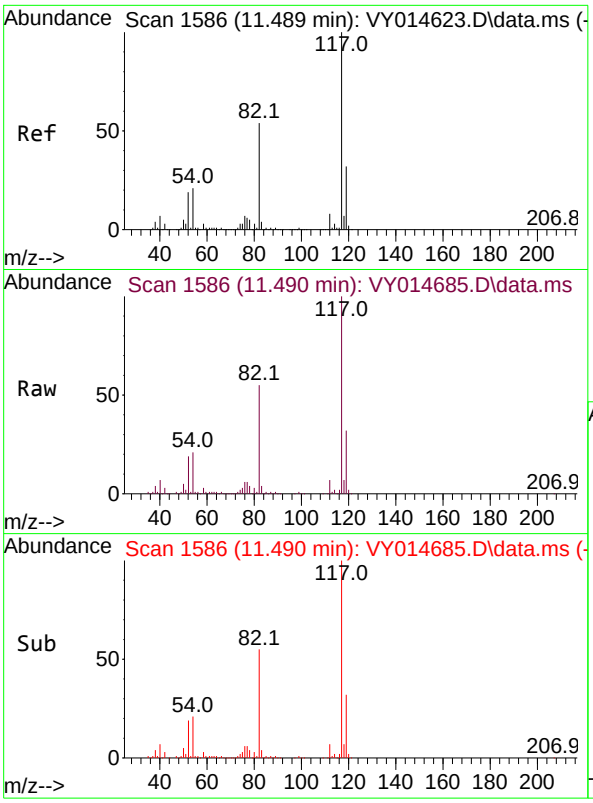


#62
4-Bromofluorobenzene
Concen: 43.849 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 95 Resp: 131528

Ion	Ratio	Lower	Upper
95	100		
174	80.8	0.0	178.2
176	77.7	0.0	173.8

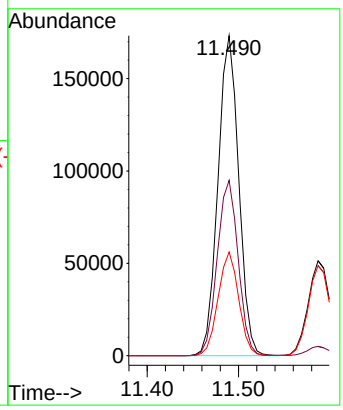




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

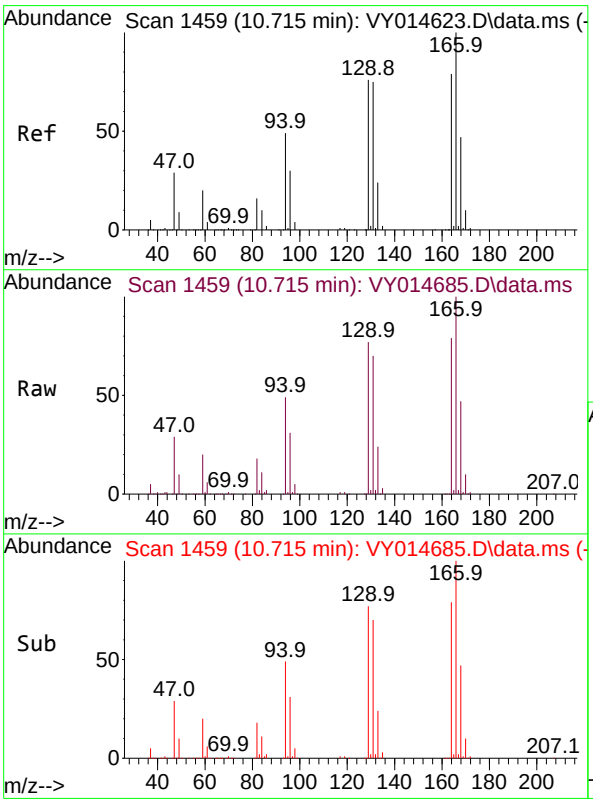
Tgt Ion:117 Resp: 27365

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	32.4	26.3	39.5



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

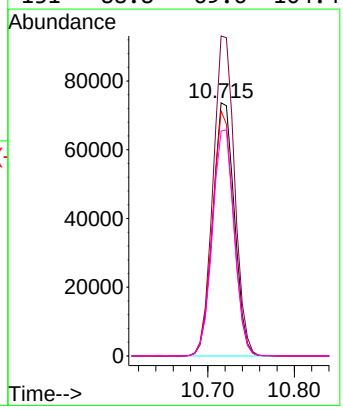
Manual Integrations
APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

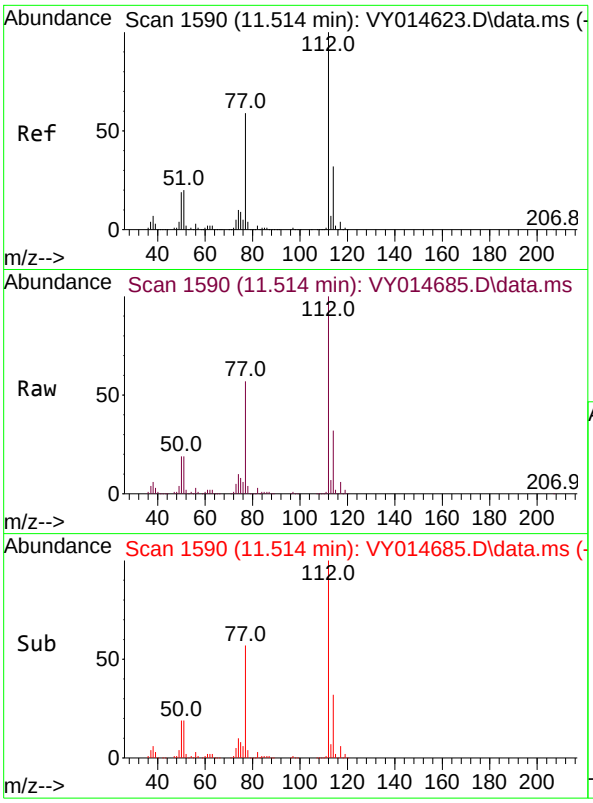


#64
Tetrachloroethene
Concen: 57.858 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:164 Resp: 127338

Ion	Ratio	Lower	Upper
164	100		
166	126.4	103.0	154.6
129	96.8	77.2	115.8
131	88.8	69.6	104.4

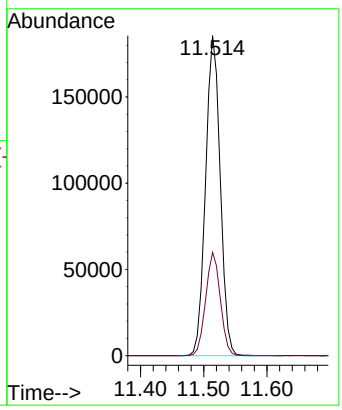




#65
Chlorobenzene
Concen: 51.337 ug/l
RT: 11.514 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:112 Resp: 29936

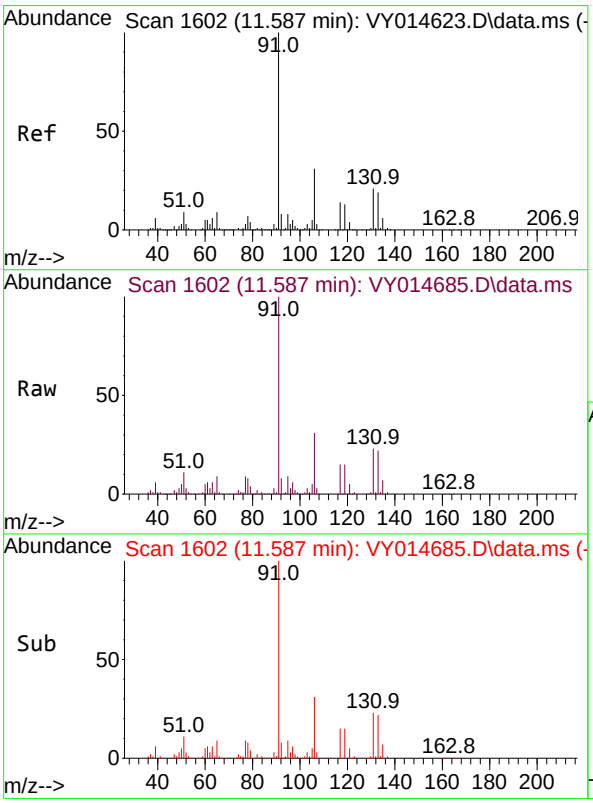
Ion	Ratio	Lower	Upper
112	100		
114	32.3	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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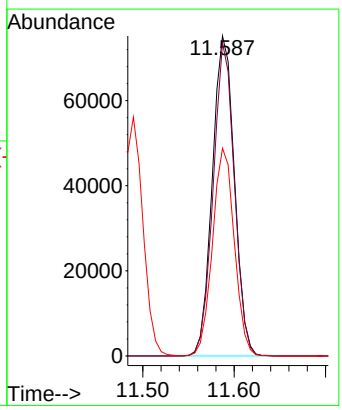
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

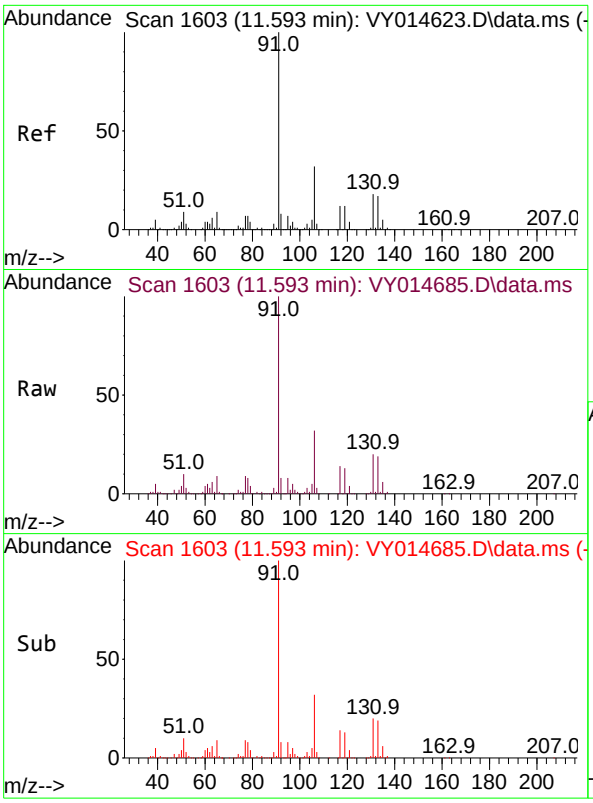


#66
1,1,1,2-Tetrachloroethane
Concen: 57.390 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:131 Resp: 126182

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.5	142.6
119	64.2	31.6	94.7

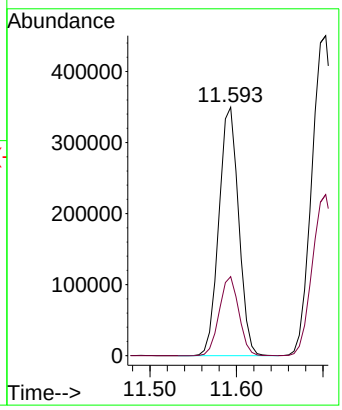




#67
Ethyl Benzene
Concen: 52.665 ug/l
RT: 11.593 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 91 Resp: 5544

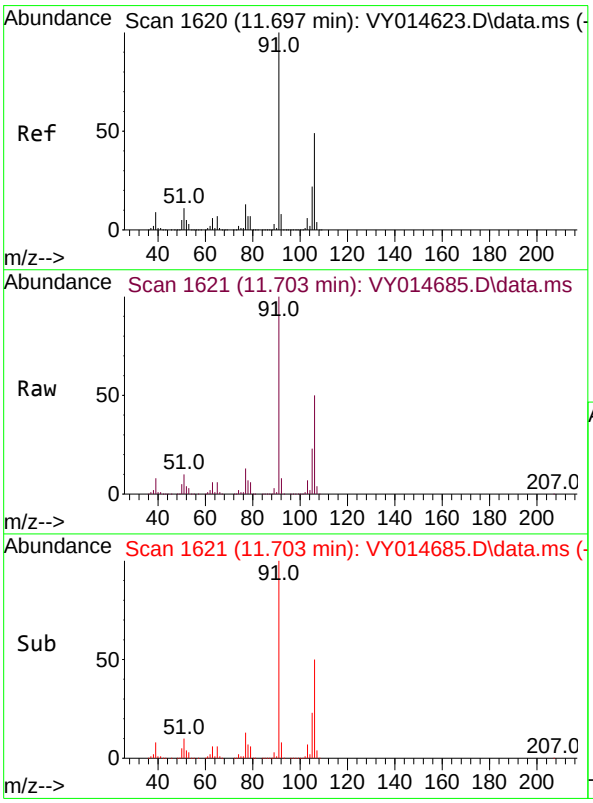
Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.6	36.8



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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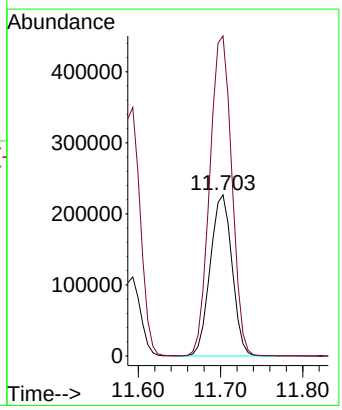
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

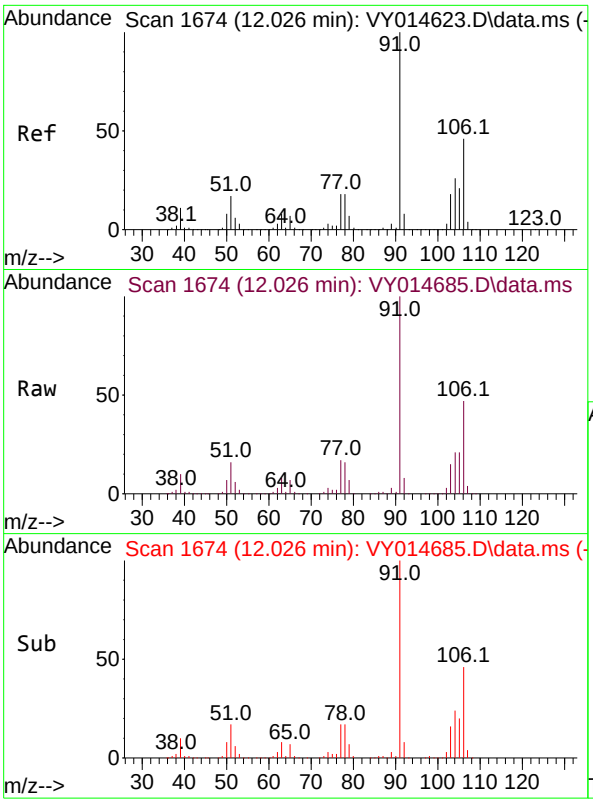


#68
m/p-Xylenes
Concen: 103.925 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:106 Resp: 417681

Ion	Ratio	Lower	Upper
106	100		
91	201.2	166.1	249.1

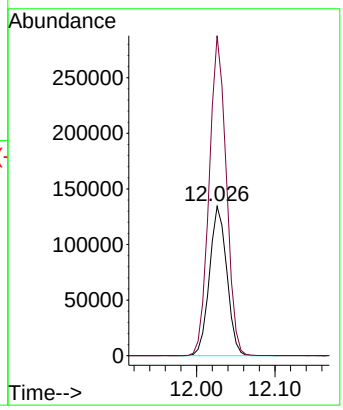




#69
o-Xylene
Concen: 52.690 ug/l
RT: 12.026 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:106 Resp: 20626

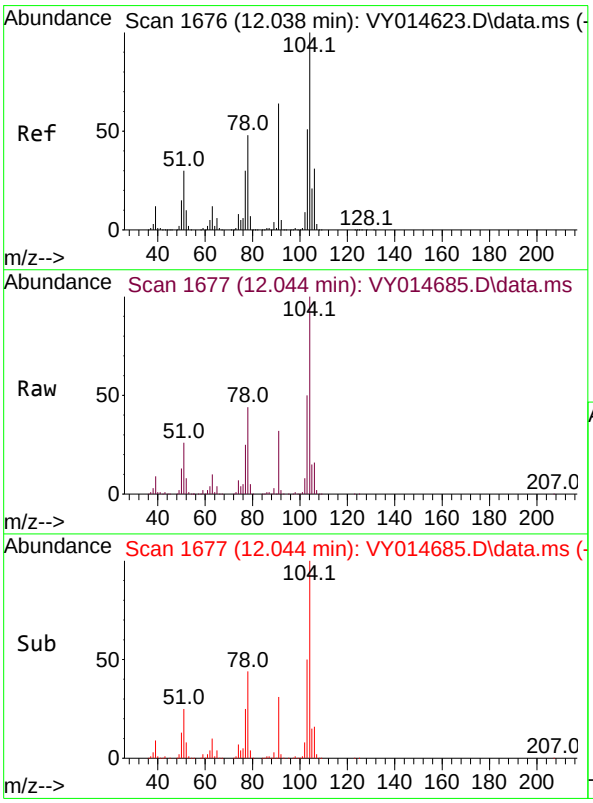
Ion	Ratio	Lower	Upper
106	100		
91	211.6	108.1	324.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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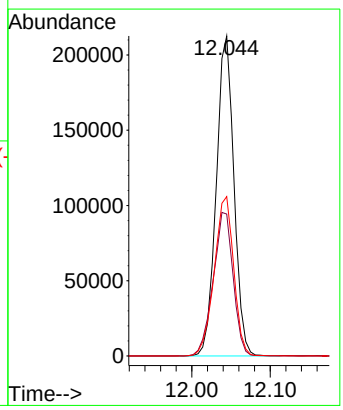
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

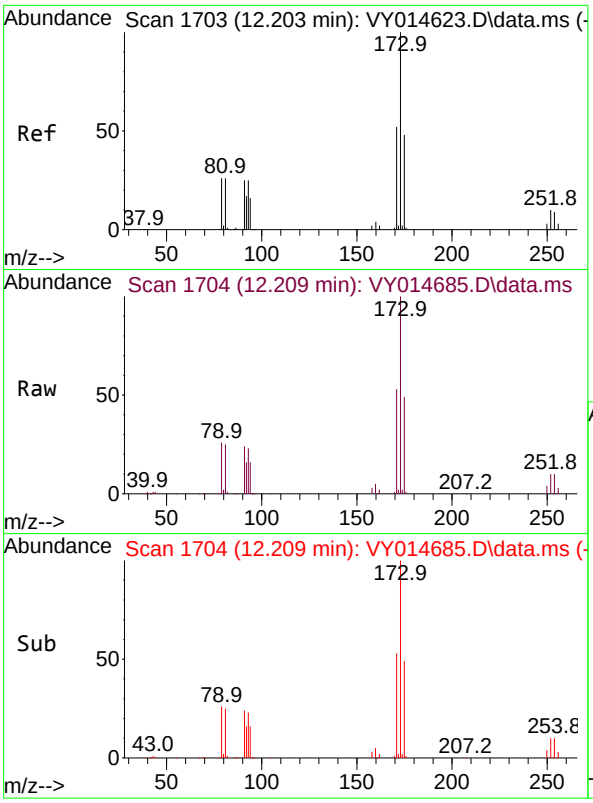


#70
Styrene
Concen: 50.623 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:104 Resp: 333997

Ion	Ratio	Lower	Upper
104	100		
78	50.6	41.5	62.3
103	54.9	44.6	67.0

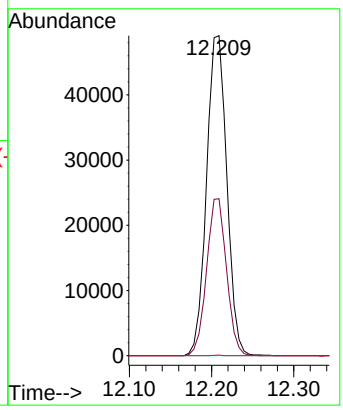




#71
Bromoform
Concen: 56.338 ug/l
RT: 12.209 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

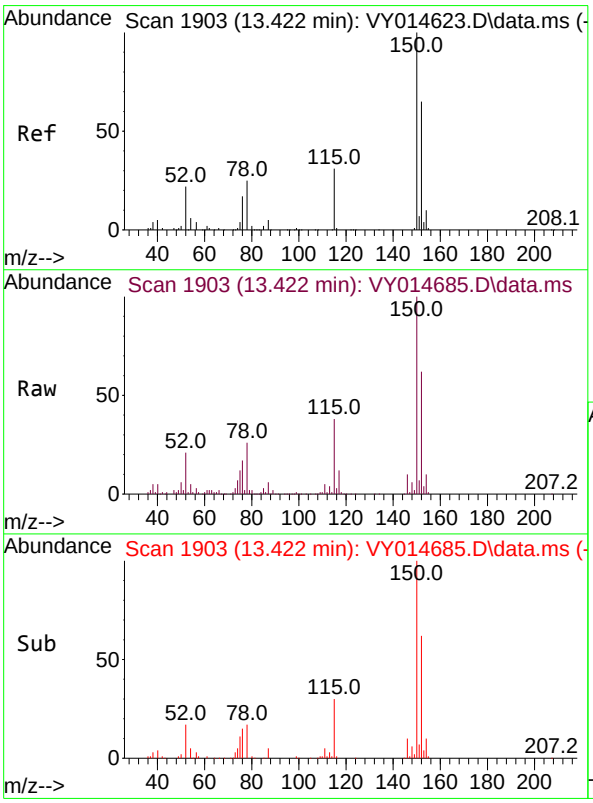
Tgt Ion:173 Resp: 8396

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.8
254	0.1	0.2	0.2



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

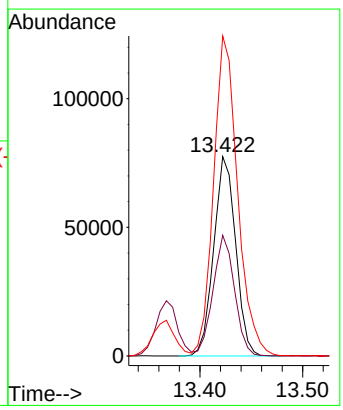
Manual Integrations
APPROVED
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

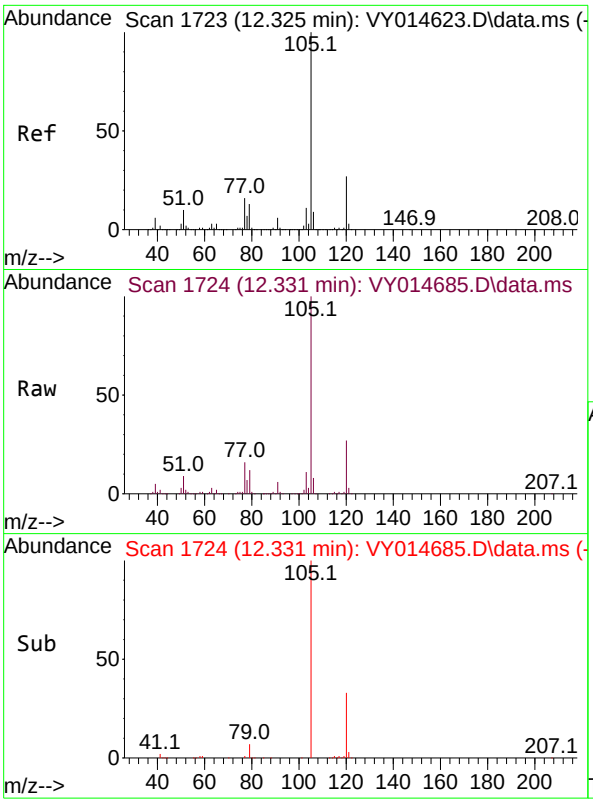


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:152 Resp: 114737

Ion	Ratio	Lower	Upper
152	100		
115	59.5	28.8	86.5
150	175.7	0.0	348.8

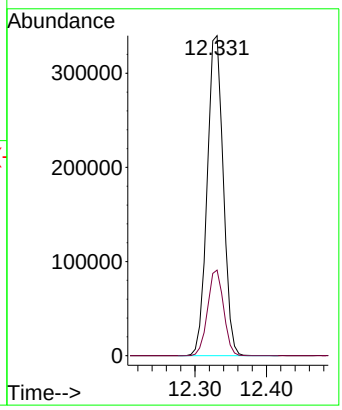




#73
Isopropylbenzene
Concen: 58.815 ug/l
RT: 12.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:105 Resp: 52839

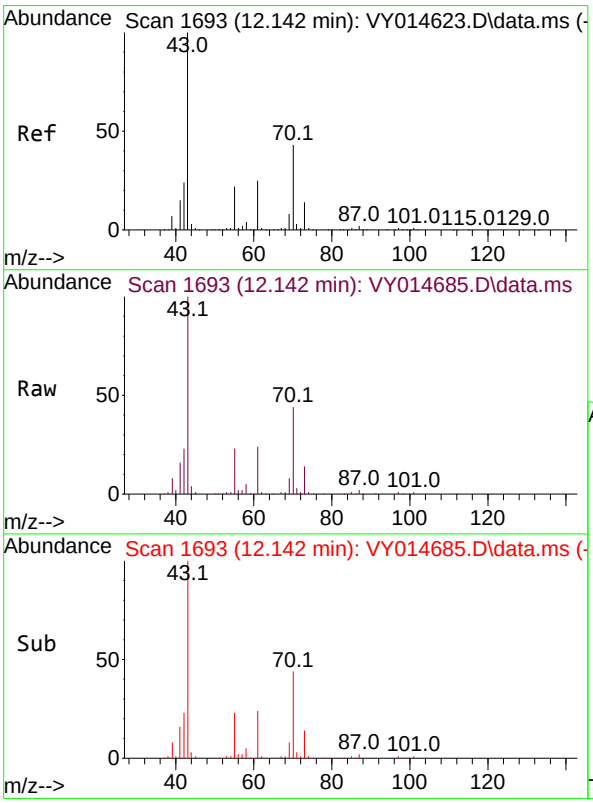
Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.9



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

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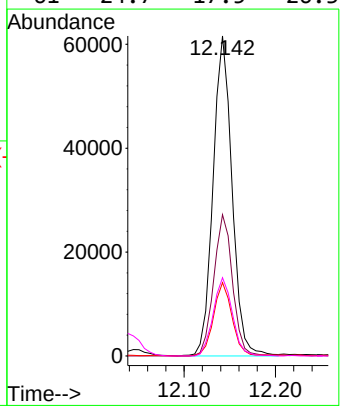
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

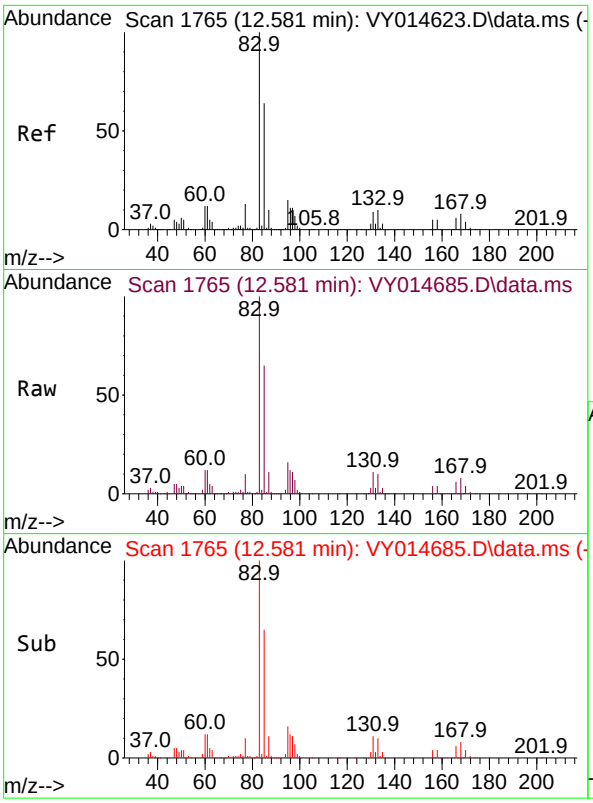


#74
N-amyl acetate
Concen: 29.586 ug/l
RT: 12.142 min Scan# 1693
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 43 Resp: 89020

Ion	Ratio	Lower	Upper
43	100		
70	43.6	29.7	44.5
55	22.5	18.3	27.5
61	24.7	17.5	26.3

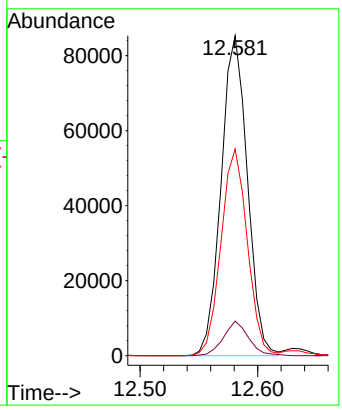




#75
1,1,2,2-Tetrachloroethane
Concen: 64.694 ug/l
RT: 12.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 83 Resp: 13254

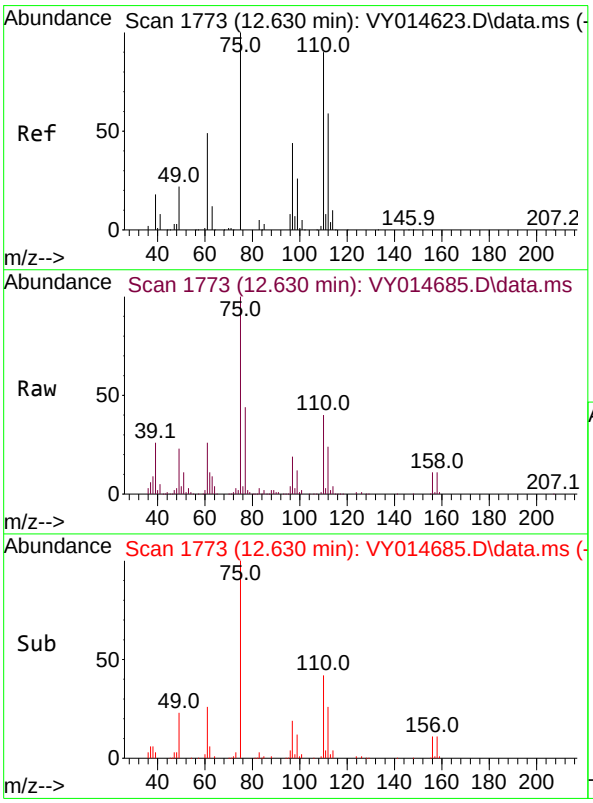
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.4	16.2
85	64.6	31.8	95.4



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

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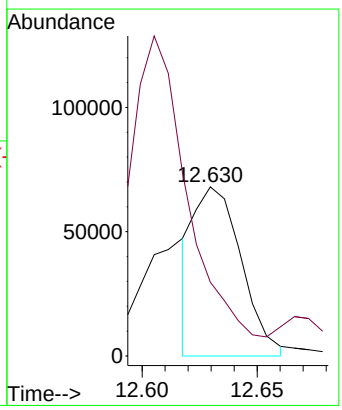
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

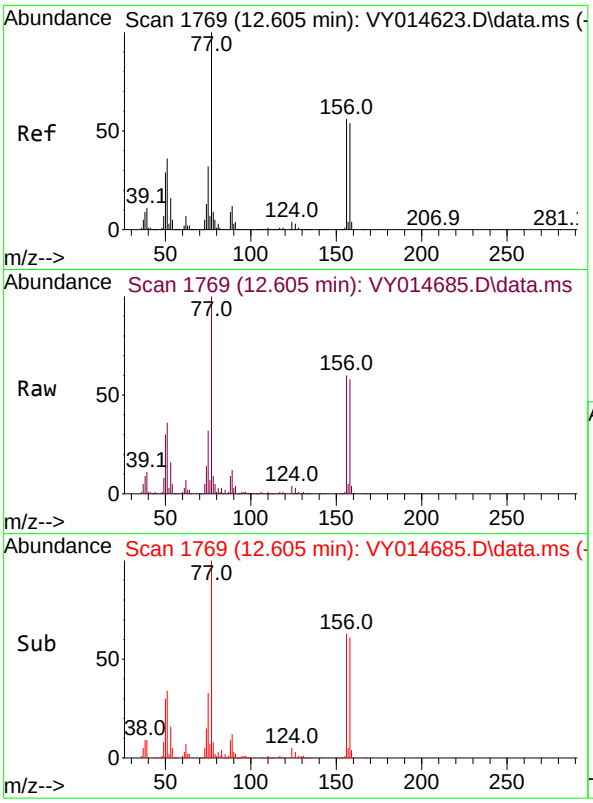


#76
1,2,3-Trichloropropane
Concen: 67.454 ug/l m
RT: 12.630 min Scan# 1773
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 75 Resp: 97747

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

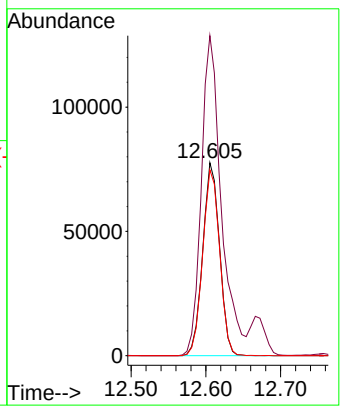




#77
Bromobenzene
Concen: 59.198 ug/l
RT: 12.605 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:156 Resp: 12140

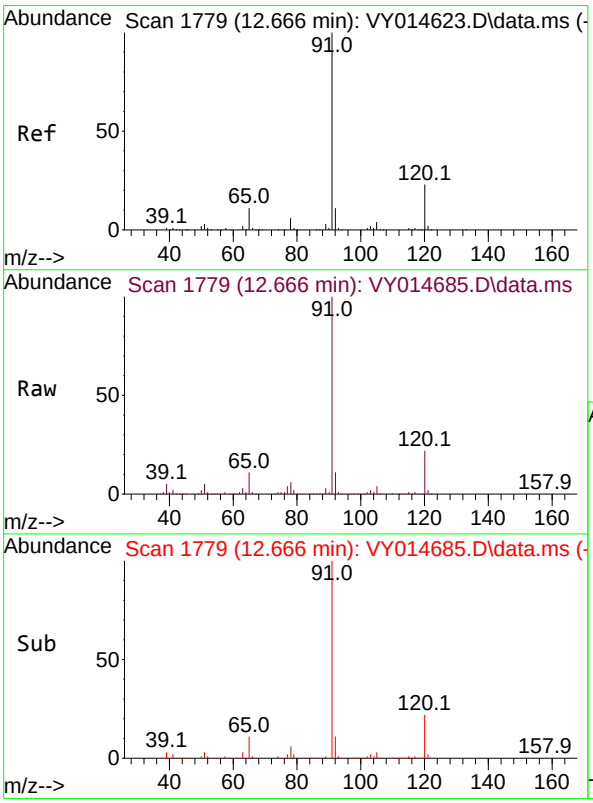
Ion	Ratio	Lower	Upper
156	100		
77	196.7	92.8	278.6
158	97.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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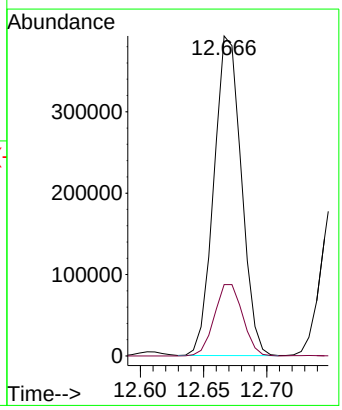
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

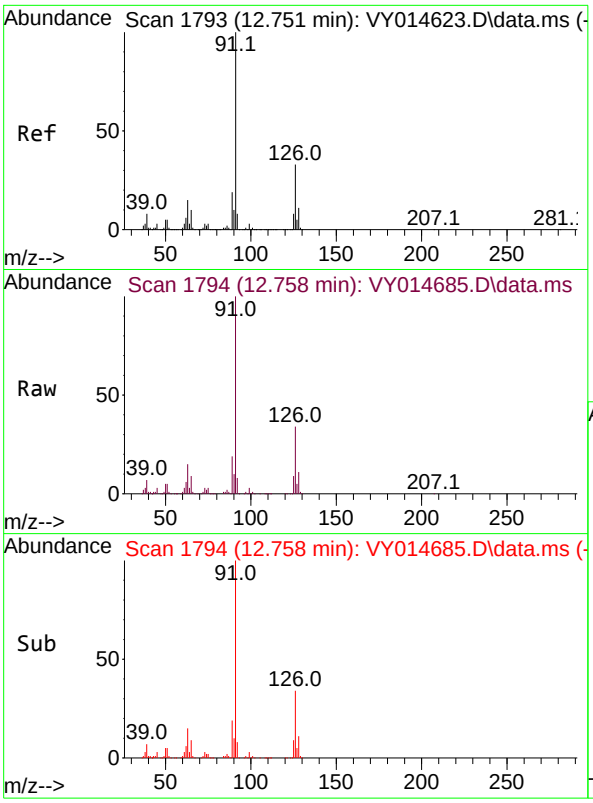


#78
n-propylbenzene
Concen: 54.649 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 91 Resp: 591619

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.4





#79
2-Chlorotoluene
Concen: 54.299 ug/l
RT: 12.758 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

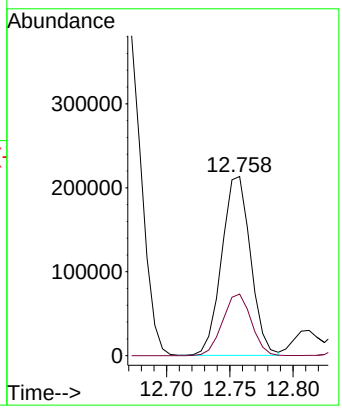
Tgt Ion: 91 Resp: 33857

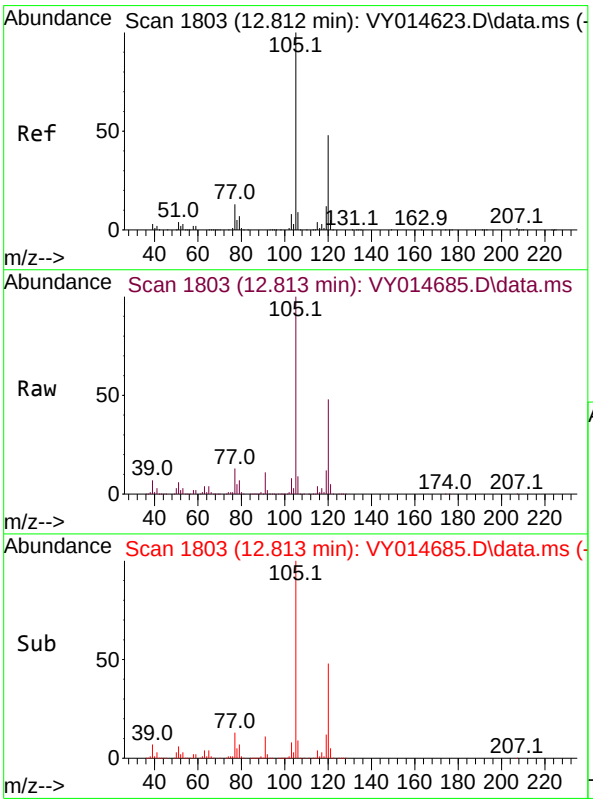
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	51.7

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

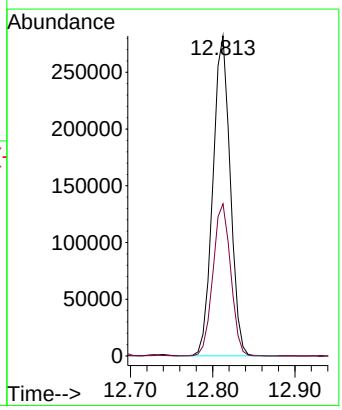


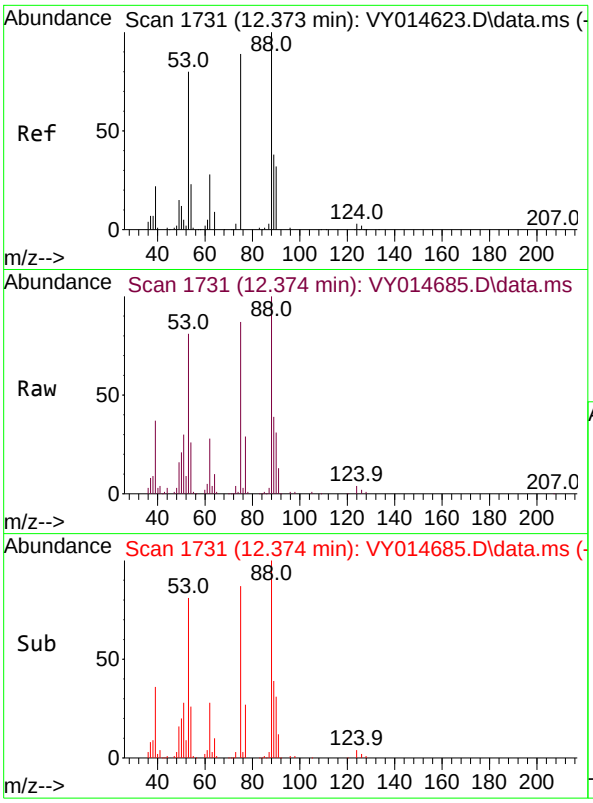


#80
1,3,5-Trimethylbenzene
Concen: 55.062 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:105 Resp: 413127

Ion	Ratio	Lower	Upper
105	100		
120	48.7	23.9	71.7





#81
trans-1,4-Dichloro-2-butene
Concen: 54.605 ug/l
RT: 12.374 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

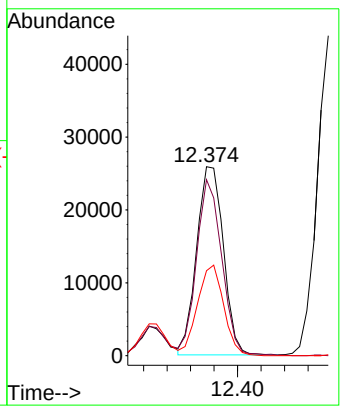
Tgt Ion: 75 Resp: 4086

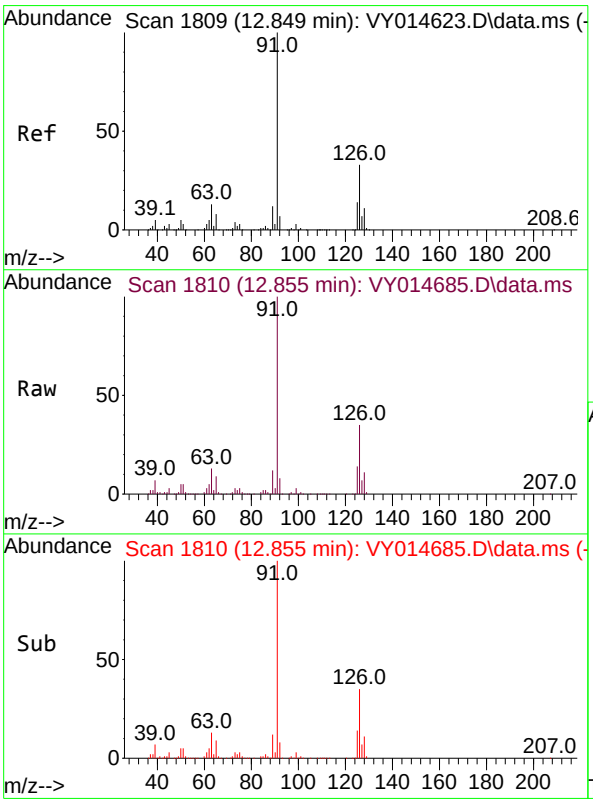
Ion	Ratio	Lower	Upper
75	100		
53	88.7	77.8	116.8
89	47.2	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

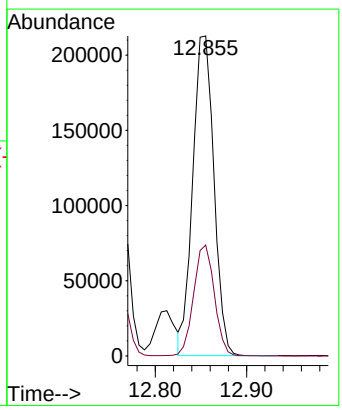


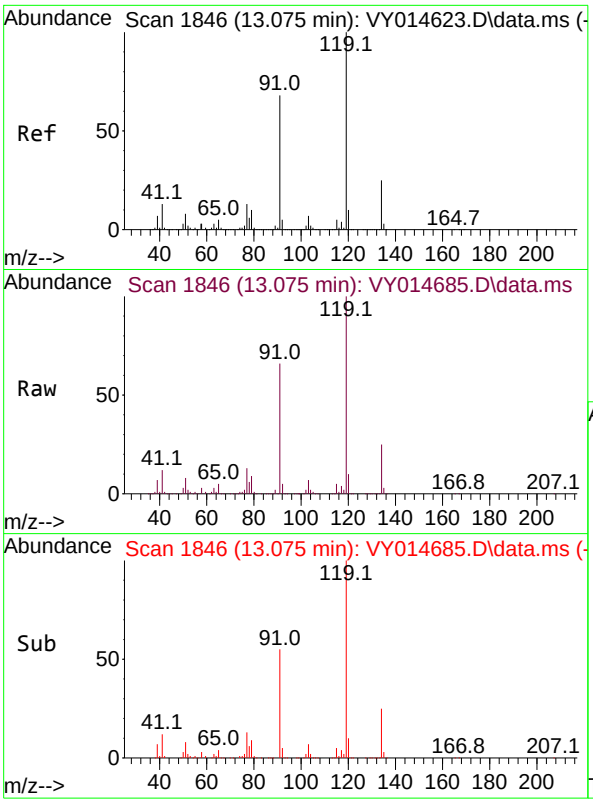


#82
4-Chlorotoluene
Concen: 53.259 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 91 Resp: 342021

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.2	51.6





#83
tert-Butylbenzene
Concen: 55.786 ug/l
RT: 13.075 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

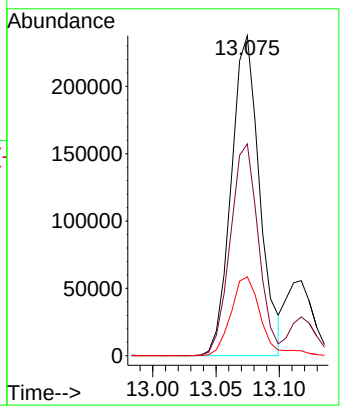
Tgt Ion:119 Resp: 37128

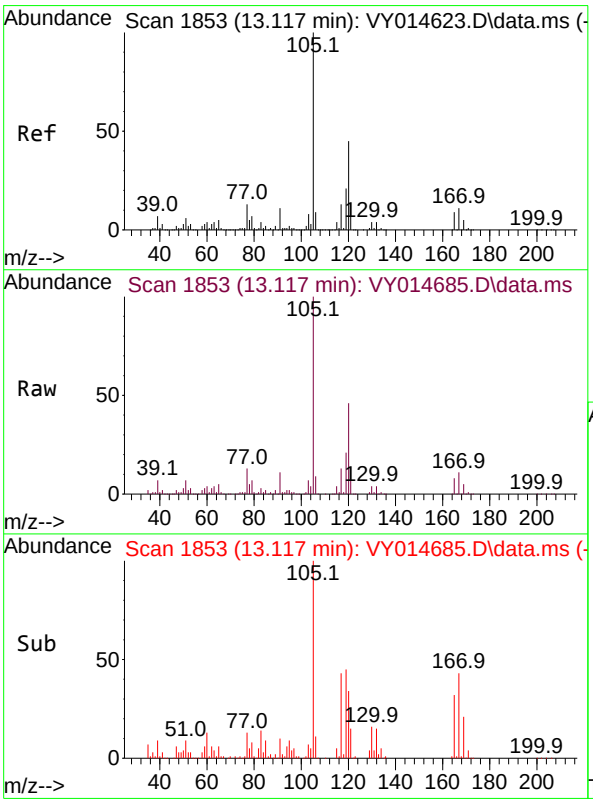
Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.9	98.6
134	26.2	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

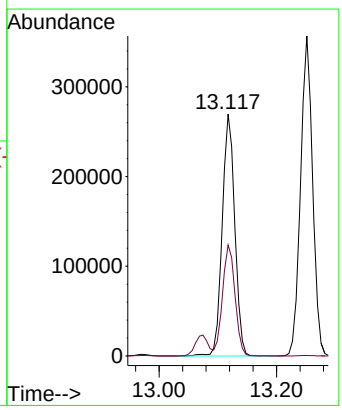


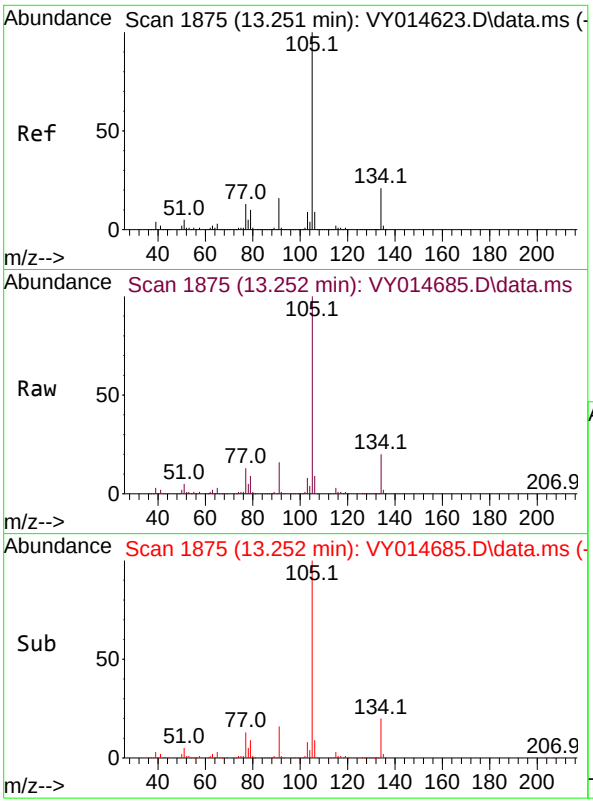


#84
1,2,4-Trimethylbenzene
Concen: 54.339 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:105 Resp: 400111

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.2	66.6





#85
sec-Butylbenzene
Concen: 52.023 ug/l
RT: 13.252 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

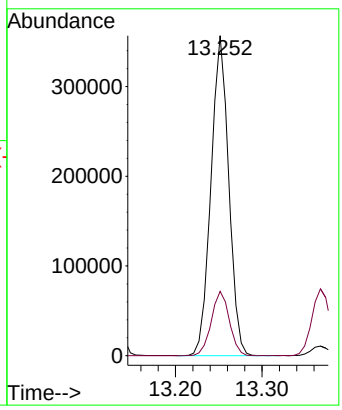
Tgt Ion:105 Resp: 50791

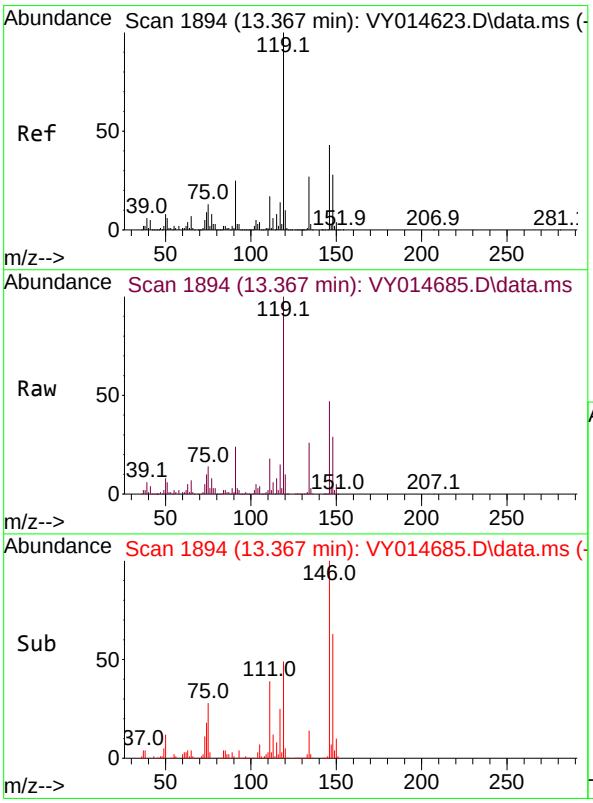
Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.6

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

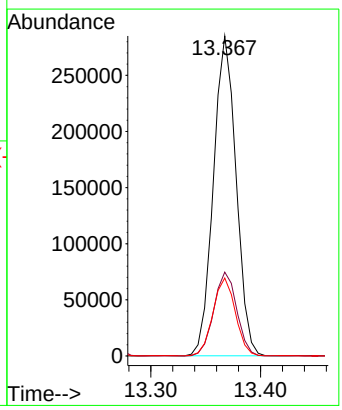


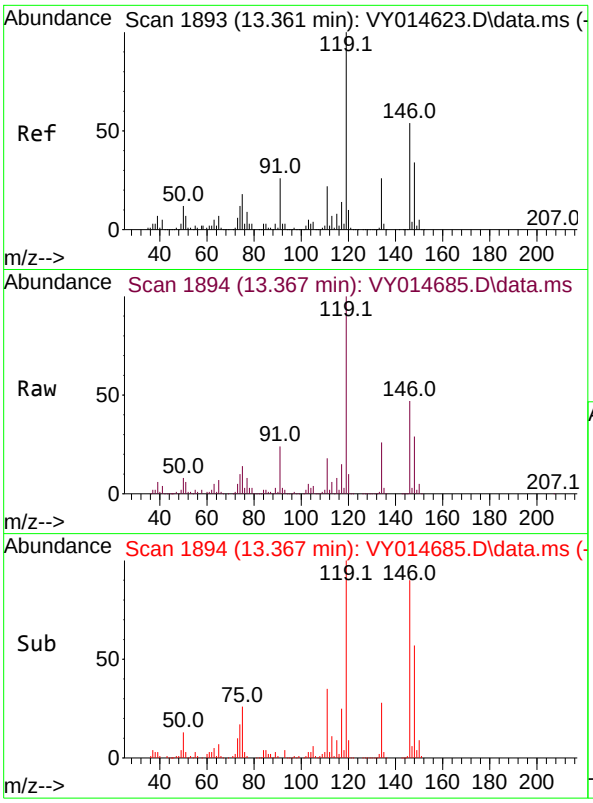


#86
p-Isopropyltoluene
Concen: 51.461 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:119 Resp: 410219

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.3	39.8
91	23.9	12.4	37.4

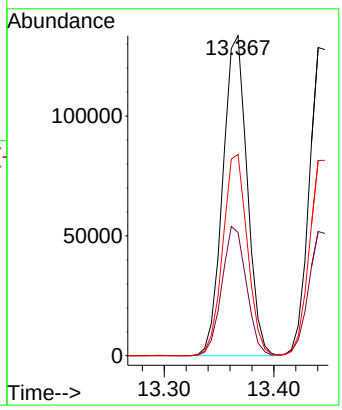




#87
1,3-Dichlorobenzene
Concen: 51.657 ug/l
RT: 13.367 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:146 Resp: 20617

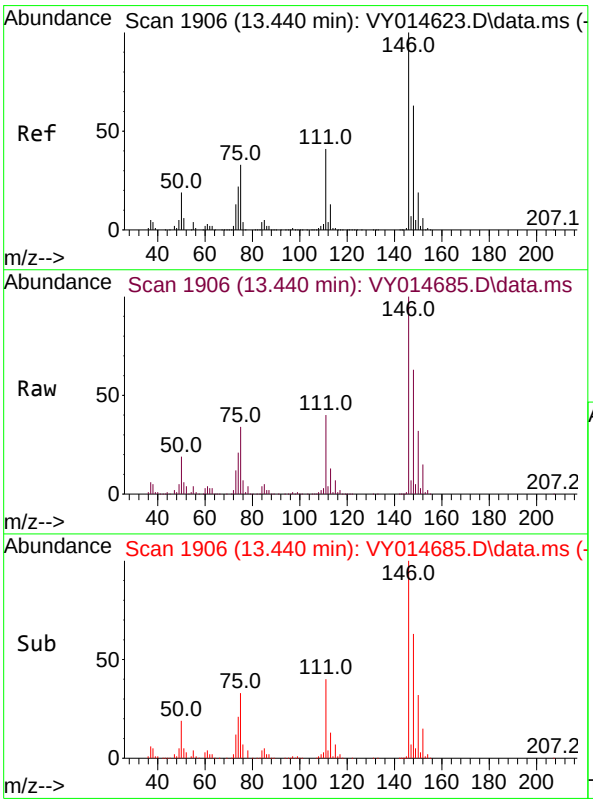
Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.4	58.2
148	63.5	31.9	95.5



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

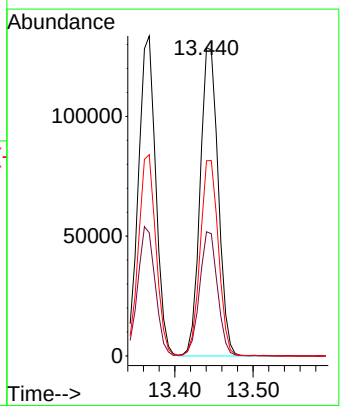
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

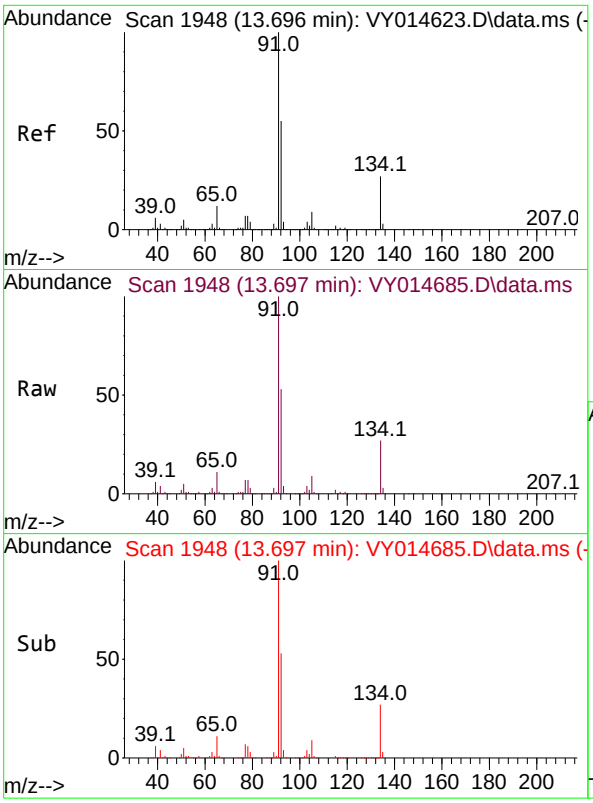


#88
1,4-Dichlorobenzene
Concen: 51.731 ug/l
RT: 13.440 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:146 Resp: 206900

Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.9	56.7
148	63.6	32.1	96.5

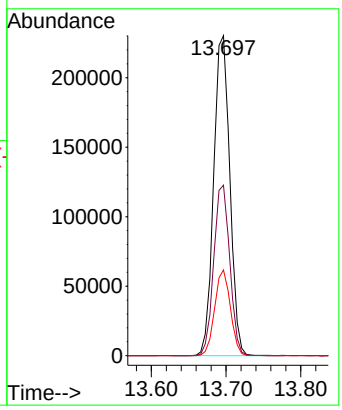




#89
n-Butylbenzene
Concen: 44.571 ug/l
RT: 13.697 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 91 Resp: 34566

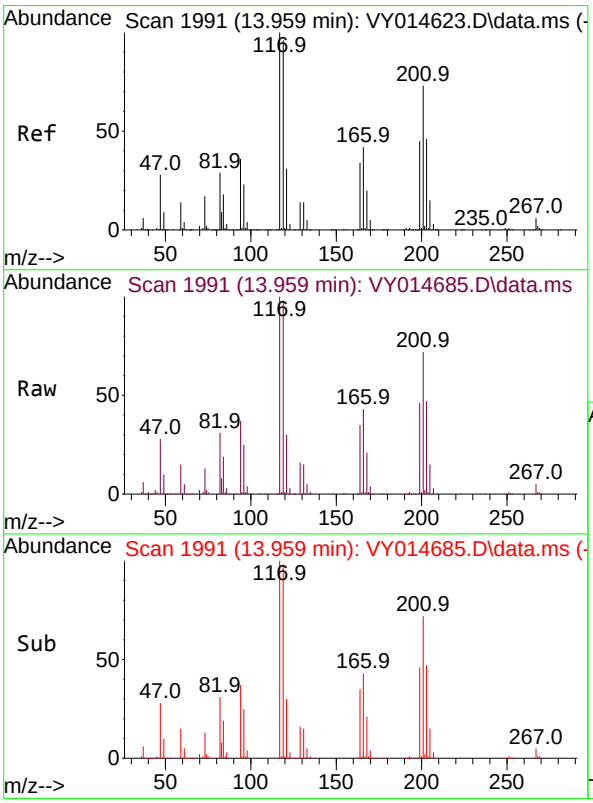
Ion	Ratio	Lower	Upper
91	100		
92	52.9	25.4	76.0
134	26.1	12.6	37.6



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
APPROVED

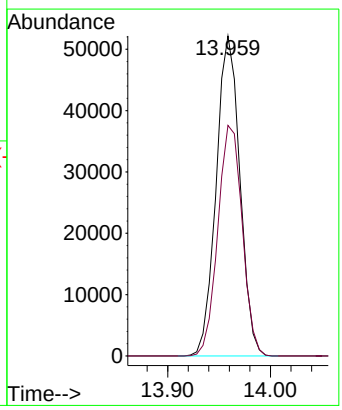
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

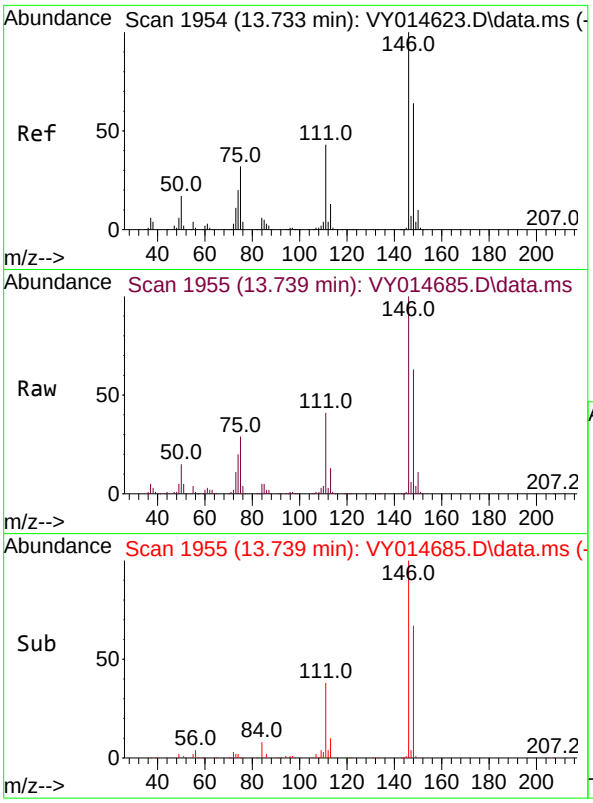


#90
Hexachloroethane
Concen: 51.044 ug/l
RT: 13.959 min Scan# 1991
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:117 Resp: 83575

Ion	Ratio	Lower	Upper
117	100		
201	74.1	41.6	124.8

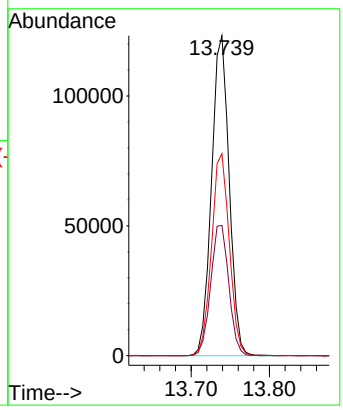




#91
1,2-Dichlorobenzene
Concen: 52.729 ug/l
RT: 13.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:146 Resp: 19281

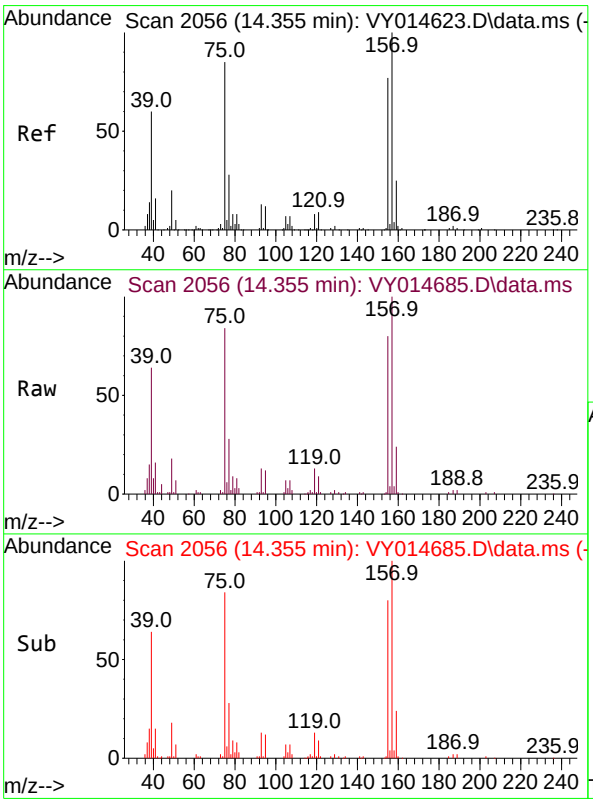
Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.7	59.0
148	63.8	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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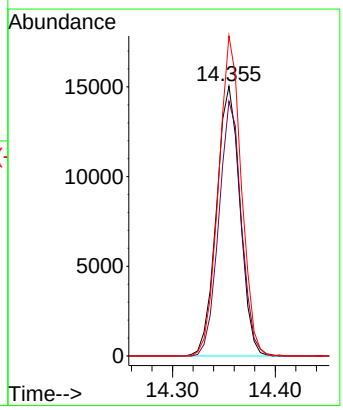
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

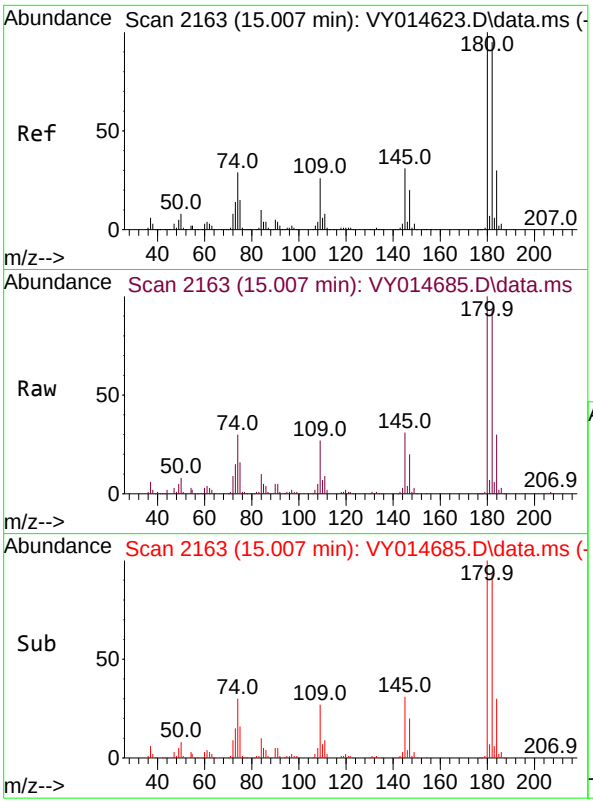


#92
1,2-Dibromo-3-Chloropropane
Concen: 60.727 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion: 75 Resp: 23793

Ion	Ratio	Lower	Upper
75	100		
155	90.5	41.5	124.6
157	115.5	51.8	155.5





#93
1,2,4-Trichlorobenzene
Concen: 37.600 ug/l
RT: 15.007 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

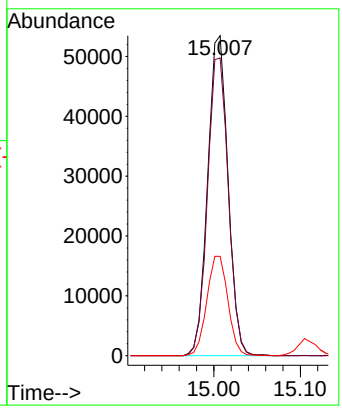
Tgt Ion:180 Resp: 8728

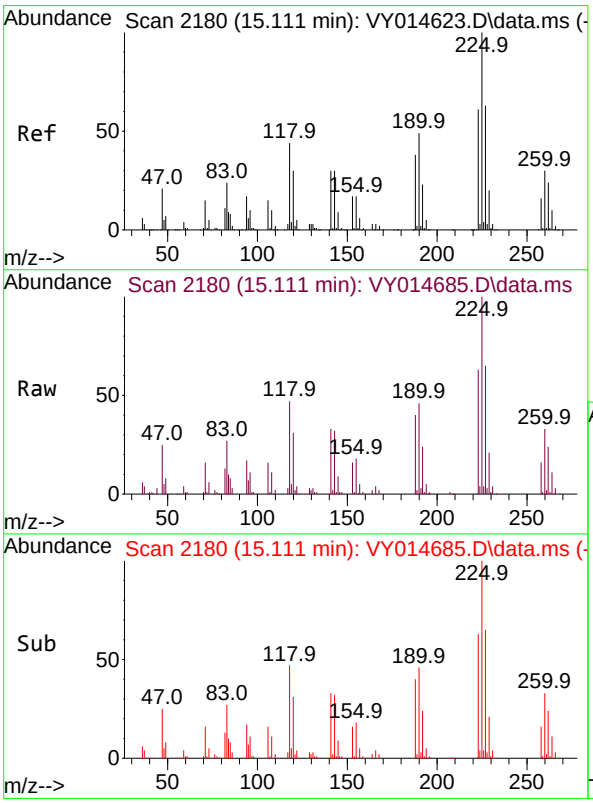
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.0	141.2
145	32.2	14.5	43.5

Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023

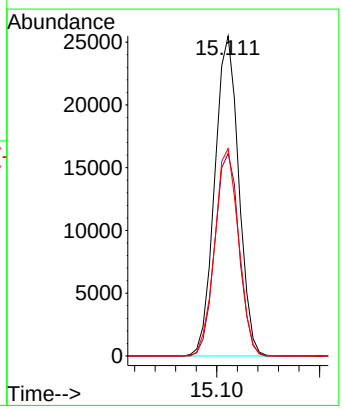


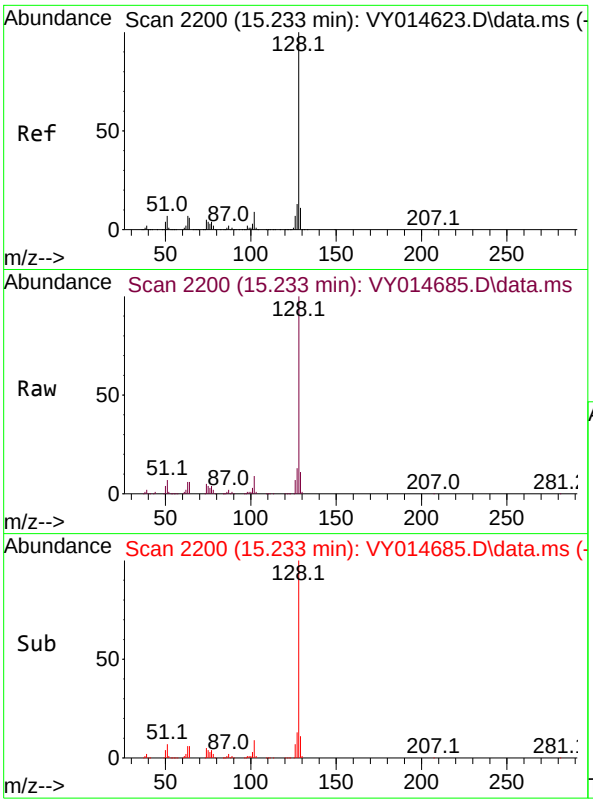


#94
Hexachlorobutadiene
Concen: 32.299 ug/l
RT: 15.111 min Scan# 2180
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:225 Resp: 41201

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.9
227	64.8	33.0	98.9

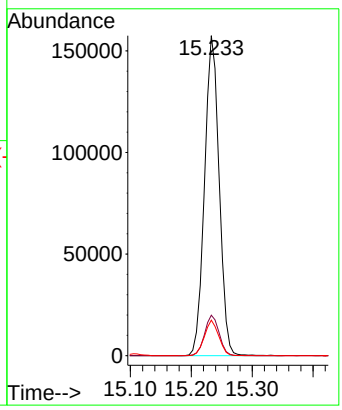




#95
Naphthalene
Concen: 48.686 ug/l
RT: 15.233 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:128 Resp: 26329

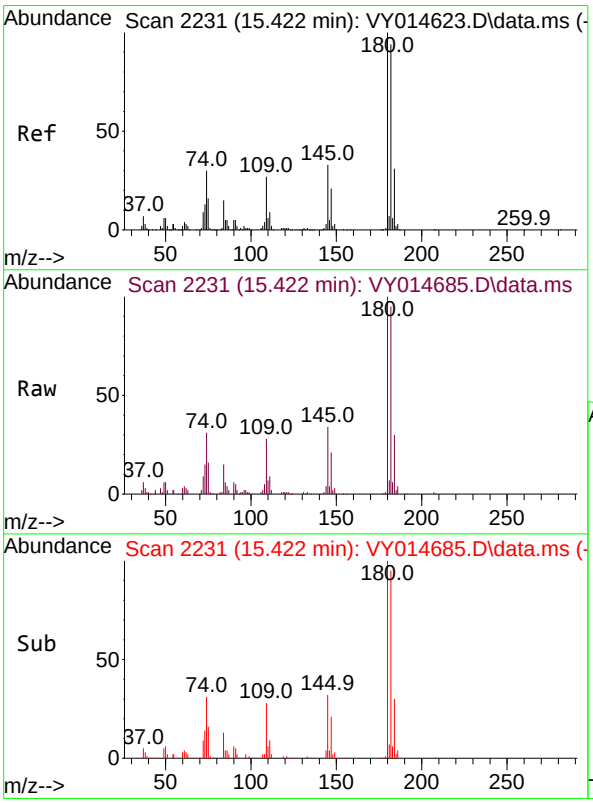
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.8	16.2
129	10.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
SB-02(2-4)MSD

Manual Integrations
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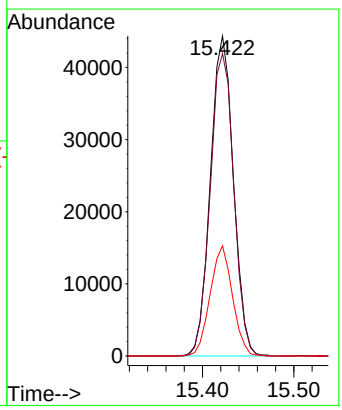
Reviewed By :John Carlone 07/18/2023
Supervised By :Mahesh Dadoda 07/18/2023



#96
1,2,3-Trichlorobenzene
Concen: 37.632 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY014685.D
Acq: 17 Jul 2023 20:14

Tgt Ion:180 Resp: 77635

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.3	141.8
145	33.4	15.4	46.2



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Manual Integration Report

Sequence:	VN071023	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN078449.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:27:44 PM	MMDadoda	7/11/2023 3:08:37 PM	Peak Integrated by Software
VSTDICCC050	VN078450.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:27:50 PM	MMDadoda	7/11/2023 3:08:37 PM	Peak Integrated by Software
VSTDICC040	VN078451.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:27:55 PM	MMDadoda	7/11/2023 3:08:38 PM	Peak Integrated by Software
VSTDICC020	VN078452.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:28:00 PM	MMDadoda	7/11/2023 3:08:39 PM	Peak Integrated by Software
VSTDICC005	VN078453.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:28:07 PM	MMDadoda	7/11/2023 3:08:40 PM	Peak Integrated by Software
VSTDICC001	VN078454.D	1,1,2-Trichlorotrifluoroethane	JOHN	7/10/2023 4:28:12 PM	MMDadoda	7/11/2023 3:08:42 PM	Peak Integrated by Software
VSTDICC001	VN078454.D	1,2,3-Trichloropropane	JOHN	7/10/2023 4:28:12 PM	MMDadoda	7/11/2023 3:08:42 PM	Peak Integrated by Software
VSTDICC001	VN078454.D	1,4-Dichlorobenzene	JOHN	7/10/2023 4:28:12 PM	MMDadoda	7/11/2023 3:08:42 PM	Peak Integrated by Software
VSTDICC001	VN078454.D	2,2-Dichloropropane	JOHN	7/10/2023 4:28:12 PM	MMDadoda	7/11/2023 3:08:42 PM	Peak Integrated by Software
VSTDICV050	VN078456.D	1,2,3-Trichloropropane	JOHN	7/11/2023 9:17:10 AM	MMDadoda	7/11/2023 3:08:43 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn071423	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN078508.D	1,2,3-Trichloropropane	JOHN	7/17/2023 11:06:27 AM	MMDadoda	7/17/2023 4:14:13 PM	Peak Integrated by Software
VN0714WBS01	VN078511.D	1,2,3-Trichloropropane	JOHN	7/17/2023 11:06:33 AM	MMDadoda	7/17/2023 4:14:12 PM	Peak Integrated by Software
VN0714WBSD01	VN078512.D	1,2,3-Trichloropropane	JOHN	7/17/2023 11:06:39 AM	MMDadoda	7/17/2023 4:14:10 PM	Peak Integrated by Software
VSTDCCC050	VN078531.D	1,2,3-Trichloropropane	JOHN	7/17/2023 11:07:03 AM	MMDadoda	7/17/2023 4:14:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY071323	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY014620.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:21 AM	MMDadoda	7/14/2023 1:55:47 PM	Peak Integrated by Software
VSTDICC005	VY014620.D	Methacrylonitrile	JOHN	7/14/2023 9:49:21 AM	MMDadoda	7/14/2023 1:55:47 PM	Peak Integrated by Software
VSTDICC010	VY014621.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:27 AM	MMDadoda	7/14/2023 1:55:48 PM	Peak Integrated by Software
VSTDICCC050	VY014623.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:32 AM	MMDadoda	7/14/2023 1:55:49 PM	Peak Integrated by Software
VSTDICCC050	VY014623.D	Methacrylonitrile	JOHN	7/14/2023 9:49:32 AM	MMDadoda	7/14/2023 1:55:49 PM	Peak Integrated by Software
VSTDICC100	VY014624.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:38 AM	MMDadoda	7/14/2023 1:55:51 PM	Peak Integrated by Software
VSTDICC100	VY014624.D	Methacrylonitrile	JOHN	7/14/2023 9:49:38 AM	MMDadoda	7/14/2023 1:55:51 PM	Peak Integrated by Software
VSTDICC150	VY014625.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:45 AM	MMDadoda	7/14/2023 1:55:53 PM	Peak Integrated by Software
VSTDICC150	VY014625.D	Methacrylonitrile	JOHN	7/14/2023 9:49:45 AM	MMDadoda	7/14/2023 1:55:53 PM	Peak Integrated by Software
VSTDICC020	VY014627.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:51 AM	MMDadoda	7/14/2023 1:55:55 PM	Peak Integrated by Software
VSTDICC020	VY014627.D	Methacrylonitrile	JOHN	7/14/2023 9:49:51 AM	MMDadoda	7/14/2023 1:55:55 PM	Peak Integrated by Software
VSTDICV050	VY014628.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:49:59 AM	MMDadoda	7/14/2023 1:55:57 PM	Peak Integrated by Software
VSTDCCC050	VY014636.D	1,2,3-Trichloropropane	JOHN	7/14/2023 9:50:23 AM	MMDadoda	7/14/2023 1:56:06 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY071323	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY014636.D	Methacrylonitrile	JOHN	7/14/2023 9:50:23 AM	MMDadoda	7/14/2023 1:56:06 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy071723	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY014663.D	1,2,3-Trichloropropane	JOHN	7/18/2023 9:46:45 AM	MMDadoda	7/18/2023 10:37:59 AM	Peak Integrated by Software
VSTDCCC050	VY014663.D	Methacrylonitrile	JOHN	7/18/2023 9:46:45 AM	MMDadoda	7/18/2023 10:37:59 AM	Peak Integrated by Software
VY0717SBS01	VY014665.D	1,2,3-Trichloropropane	JOHN	7/18/2023 9:46:51 AM	MMDadoda	7/18/2023 3:13:22 PM	Peak Integrated by Software
VY0717SBS01	VY014665.D	Methacrylonitrile	JOHN	7/18/2023 9:46:51 AM	MMDadoda	7/18/2023 3:13:22 PM	Peak Integrated by Software
O3631-02MS	VY014684.D	1,2,3-Trichloropropane	JOHN	7/18/2023 9:47:25 AM	MMDadoda	7/18/2023 3:13:30 PM	Peak Integrated by Software
O3631-02MS	VY014684.D	Vinyl Acetate	JOHN	7/18/2023 9:47:25 AM	MMDadoda	7/18/2023 3:13:30 PM	Peak Integrated by Software
O3631-03MSD	VY014685.D	1,2,3-Trichloropropane	JOHN	7/18/2023 9:47:30 AM	MMDadoda	7/18/2023 3:13:31 PM	Peak Integrated by Software
O3631-03MSD	VY014685.D	Methacrylonitrile	JOHN	7/18/2023 9:47:30 AM	MMDadoda	7/18/2023 3:13:31 PM	Peak Integrated by Software
VSTDCCC050	VY014686.D	1,2,3-Trichloropropane	JOHN	7/18/2023 9:47:36 AM	MMDadoda	7/18/2023 3:13:33 PM	Peak Integrated by Software
VSTDCCC050	VY014686.D	Methacrylonitrile	JOHN	7/18/2023 9:47:36 AM	MMDadoda	7/18/2023 3:13:33 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071023

Review By	John Carlone	Review On	7/11/2023 9:17:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/11/2023 3:08:52 PM		
SubDirectory	VN071023	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121589
Initial Calibration Stds	VP121609,VP121610,VP121611,VP121612,VP121613,VP121614
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP121617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN078448.D	10 Jul 2023 11:48	JC\MD	Ok
2	VSTDICC100	VN078449.D	10 Jul 2023 12:21	JC\MD	Ok,M
3	VSTDICCC050	VN078450.D	10 Jul 2023 12:46	JC\MD	Ok,M
4	VSTDICC040	VN078451.D	10 Jul 2023 13:10	JC\MD	Ok,M
5	VSTDICC020	VN078452.D	10 Jul 2023 13:34	JC\MD	Ok,M
6	VSTDICC005	VN078453.D	10 Jul 2023 13:58	JC\MD	Ok,M
7	VSTDICC001	VN078454.D	10 Jul 2023 14:46	JC\MD	Ok,M
8	IBLK	VN078455.D	10 Jul 2023 15:10	JC\MD	Ok
9	VSTDICV050	VN078456.D	10 Jul 2023 16:03	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071423

Review By	John Carlone	Review On	7/17/2023 11:11:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/17/2023 4:14:34 PM		
SubDirectory	VN071423	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121759
Initial Calibration Stds	
CCC	VP121760,VP121761
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN078507.D	14 Jul 2023 08:35	JC\MD	Ok
2	VSTDCCC050	VN078508.D	14 Jul 2023 09:12	JC\MD	Ok,M
3	VN0714MBL01	VN078509.D	14 Jul 2023 09:45	JC\MD	Ok
4	VN0714WBL01	VN078510.D	14 Jul 2023 10:10	JC\MD	Ok
5	VN0714WBS01	VN078511.D	14 Jul 2023 10:34	JC\MD	Ok,M
6	VN0714WBSD01	VN078512.D	14 Jul 2023 11:07	JC\MD	Ok,M
7	O3620-01	VN078513.D	14 Jul 2023 11:32	JC\MD	Ok
8	O3624-01	VN078514.D	14 Jul 2023 11:56	JC\MD	Ok
9	O3624-02	VN078515.D	14 Jul 2023 12:20	JC\MD	Ok
10	O3624-03	VN078516.D	14 Jul 2023 12:45	JC\MD	Ok
11	O3624-04	VN078517.D	14 Jul 2023 13:09	JC\MD	Ok
12	PB154166TB	VN078518.D	14 Jul 2023 13:33	JC\MD	Ok
13	O3580-01	VN078519.D	14 Jul 2023 13:58	JC\MD	Ok,M
14	O3599-01	VN078520.D	14 Jul 2023 14:22	JC\MD	Ok
15	O3620-02	VN078521.D	14 Jul 2023 14:46	JC\MD	Ok
16	O3620-03	VN078522.D	14 Jul 2023 15:11	JC\MD	Ok
17	O3620-04	VN078523.D	14 Jul 2023 15:35	JC\MD	Ok
18	IBLK	VN078524.D	14 Jul 2023 16:00	JC\MD	Ok
19	O3632-09	VN078525.D	14 Jul 2023 16:24	JC\MD	Ok
20	O3631-10	VN078526.D	14 Jul 2023 16:49	JC\MD	Ok
21	O3635-01	VN078527.D	14 Jul 2023 17:13	JC\MD	Ok
22	O3635-03	VN078528.D	14 Jul 2023 17:38	JC\MD	Ok
23	O3635-02	VN078529.D	14 Jul 2023 18:02	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071423

Review By	John Carlone	Review On	7/17/2023 11:11:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/17/2023 4:14:34 PM		
SubDirectory	VN071423	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121759
Initial Calibration Stds	
CCC	VP121760,VP121761
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3637-01	VN078530.D	14 Jul 2023 18:27	JC\MD	Dilution
25	VSTDCCC050	VN078531.D	14 Jul 2023 18:51	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071323

Review By	John Carlone	Review On	7/14/2023 9:50:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/14/2023 11:38:15 AM		
SubDirectory	VY071323	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121713
Initial Calibration Stds	VP121716,VP121717,VP121718,VP121719,VP121721,VP121722
CCC	VP121726,LOQ-VP121725
Internal Standard/PEM	VP120390
ICV/I.BLK	VP121723
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY014619.D	13 Jul 2023 08:36	SY/MD	Ok
2	VSTDICC005	VY014620.D	13 Jul 2023 09:05	SY/MD	Ok,M
3	VSTDICC010	VY014621.D	13 Jul 2023 09:31	SY/MD	Ok,M
4	VSTDICC020	VY014622.D	13 Jul 2023 09:57	SY/MD	Not Ok
5	VSTDICCC050	VY014623.D	13 Jul 2023 10:19	SY/MD	Ok,M
6	VSTDICC100	VY014624.D	13 Jul 2023 10:42	SY/MD	Ok,M
7	VSTDICC150	VY014625.D	13 Jul 2023 11:05	SY/MD	Ok,M
8	VIBLK	VY014626.D	13 Jul 2023 11:30	SY/MD	Ok
9	VSTDICC020	VY014627.D	13 Jul 2023 13:31	SY/MD	Ok,M
10	VSTDICV050	VY014628.D	13 Jul 2023 15:11	SY/MD	Ok,M
11	VY0713SBL01	VY014629.D	13 Jul 2023 16:02	SY/MD	Ok
12	VY0713SBS01	VY014630.D	13 Jul 2023 16:25	SY/MD	Ok,M
13	VY0713SBSD01	VY014631.D	13 Jul 2023 16:48	SY/MD	Ok,M
14	O3572-02	VY014632.D	13 Jul 2023 17:12	SY/MD	Ok,M
15	O3591-01	VY014633.D	13 Jul 2023 17:36	SY/MD	Ok
16	O3592-01	VY014634.D	13 Jul 2023 18:00	SY/MD	Ok
17	O3601-01	VY014635.D	13 Jul 2023 18:24	SY/MD	ReRun
18	VSTDCCC050	VY014636.D	13 Jul 2023 18:47	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071723

Review By	John Carlone	Review On	7/18/2023 9:48:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/18/2023 3:13:39 PM		
SubDirectory	VY071723	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121779
Initial Calibration Stds	
CCC	VP121791,VP121792,MDL-VP121797,VP121798
Internal Standard/PEM	VP120390
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY014662.D	17 Jul 2023 09:07	SY/MD	Ok
2	VSTDCCC050	VY014663.D	17 Jul 2023 11:00	SY/MD	Ok,M
3	VY0717SBL01	VY014664.D	17 Jul 2023 11:54	SY/MD	Ok
4	VY0717SBS01	VY014665.D	17 Jul 2023 12:23	SY/MD	Ok,M
5	VY0717SBSD01	VY014666.D	17 Jul 2023 12:46	SY/MD	Ok,M
6	O3572-03	VY014667.D	17 Jul 2023 13:09	SY/MD	Ok,M
7	O3572-03	VY014668.D	17 Jul 2023 13:32	SY/MD	Ok,M
8	O3613-01	VY014669.D	17 Jul 2023 13:57	SY/MD	ReRun
9	O3633-01	VY014670.D	17 Jul 2023 14:20	SY/MD	ReRun
10	O3580-02	VY014671.D	17 Jul 2023 14:44	SY/MD	Ok
11	O3580-03	VY014672.D	17 Jul 2023 15:08	SY/MD	Ok
12	O3632-01RE	VY014673.D	17 Jul 2023 15:31	SY/MD	Confirms
13	VIBLK	VY014674.D	17 Jul 2023 15:55	SY/MD	Ok
14	O3613-01RE	VY014675.D	17 Jul 2023 16:19	SY/MD	Confirms
15	O3633-01RE	VY014676.D	17 Jul 2023 16:43	SY/MD	Confirms
16	O3631-01	VY014677.D	17 Jul 2023 17:07	SY/MD	Ok
17	O3631-04	VY014678.D	17 Jul 2023 17:30	SY/MD	Ok
18	O3631-05	VY014679.D	17 Jul 2023 17:54	SY/MD	Ok
19	O3631-06	VY014680.D	17 Jul 2023 18:18	SY/MD	Ok
20	O3631-07	VY014681.D	17 Jul 2023 18:41	SY/MD	Ok
21	O3631-08	VY014682.D	17 Jul 2023 19:05	SY/MD	Ok
22	O3631-09	VY014683.D	17 Jul 2023 19:28	SY/MD	Ok
23	O3631-02MS	VY014684.D	17 Jul 2023 19:51	SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071723

Review By	John Carlone	Review On	7/18/2023 9:48:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/18/2023 3:13:39 PM		
SubDirectory	VY071723	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121779
Initial Calibration Stds	
CCC	VP121791,VP121792,MDL-VP121797,VP121798
Internal Standard/PEM	VP120390
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3631-03MSD	VY014685.D	17 Jul 2023 20:14	SY/MD	Ok,M
25	VSTDCCC050	VY014686.D	17 Jul 2023 20:37	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071023

Review By	John Carlone	Review On	7/11/2023 9:17:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/11/2023 3:08:52 PM		
SubDirectory	VN071023	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121589
Initial Calibration Stds	VP121609,VP121610,VP121611,VP121612,VP121613,VP121614
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP121617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN078448.D	10 Jul 2023 11:48		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN078449.D	10 Jul 2023 12:21	Pass for DOD	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN078450.D	10 Jul 2023 12:46	LR - 05,06,20,75,77,90,92,94	JC\MD	Ok,M
4	VSTDICC040	VSTDICC040	VN078451.D	10 Jul 2023 13:10		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN078452.D	10 Jul 2023 13:34		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN078453.D	10 Jul 2023 13:58		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN078454.D	10 Jul 2023 14:46		JC\MD	Ok,M
8	IBLK	IBLK	VN078455.D	10 Jul 2023 15:10		JC\MD	Ok
9	VSTDICV050	ICVVN071023	VN078456.D	10 Jul 2023 16:03		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071423

Review By	John Carlone	Review On	7/17/2023 11:11:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/17/2023 4:14:34 PM		
SubDirectory	VN071423	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121759
Initial Calibration Stds	
CCC	VP121760,VP121761
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN078507.D	14 Jul 2023 08:35		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN078508.D	14 Jul 2023 09:12	pH#Lot#V12668	JC\MD	Ok,M
3	VN0714MBL01	VN0714MBL01	VN078509.D	14 Jul 2023 09:45		JC\MD	Ok
4	VN0714WBL01	VN0714WBL01	VN078510.D	14 Jul 2023 10:10		JC\MD	Ok
5	VN0714WBS01	VN0714WBS01	VN078511.D	14 Jul 2023 10:34		JC\MD	Ok,M
6	VN0714WBSD01	VN0714WBSD01	VN078512.D	14 Jul 2023 11:07		JC\MD	Ok,M
7	O3620-01	713-A	VN078513.D	14 Jul 2023 11:32	vial A pH<2, please see NON CON	JC\MD	Ok
8	O3624-01	STORAGE-BLANK-SO	VN078514.D	14 Jul 2023 11:56	vial A pH<2	JC\MD	Ok
9	O3624-02	STORAGE-BLANK-WA	VN078515.D	14 Jul 2023 12:20	vial A pH<2	JC\MD	Ok
10	O3624-03	STORAGE-BLANK-WA	VN078516.D	14 Jul 2023 12:45	vial A pH<2	JC\MD	Ok
11	O3624-04	STORAGE-BLANK-SA	VN078517.D	14 Jul 2023 13:09	vial A pH<2	JC\MD	Ok
12	PB154166TB	PB154166TB	VN078518.D	14 Jul 2023 13:33		JC\MD	Ok
13	O3580-01	WASTE-1	VN078519.D	14 Jul 2023 13:58	vial A pH#5.0	JC\MD	Ok,M
14	O3599-01	IDW-7-11-23	VN078520.D	14 Jul 2023 14:22	vial A pH#5.0	JC\MD	Ok
15	O3620-02	713-B	VN078521.D	14 Jul 2023 14:46	vial A pH<2	JC\MD	Ok
16	O3620-03	713-C	VN078522.D	14 Jul 2023 15:11	vial A pH<2	JC\MD	Ok
17	O3620-04	713-D	VN078523.D	14 Jul 2023 15:35	vial A pH<2	JC\MD	Ok
18	IBLK	IBLK	VN078524.D	14 Jul 2023 16:00		JC\MD	Ok
19	O3632-09	RINSATE-BLANK	VN078525.D	14 Jul 2023 16:24	vial A pH<2	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN071423

Review By	John Carlone	Review On	7/17/2023 11:11:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/17/2023 4:14:34 PM		
SubDirectory	VN071423	HP Acquire Method		HP Processing Method	82N071023W.M

STD. NAME	STD REF.#
Tune/Reschk	VP121759
Initial Calibration Stds	
CCC	VP121760,VP121761
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	O3631-10	RINSATE-BLANK	VN078526.D	14 Jul 2023 16:49	vial A pH<2	JC\MD	Ok
21	O3635-01	TB-01-071423	VN078527.D	14 Jul 2023 17:13	vial A pH<2	JC\MD	Ok
22	O3635-03	EB-01-071423	VN078528.D	14 Jul 2023 17:38	vial A pH<2 hit of com#16, 25, 51	JC\MD	Ok
23	O3635-02	GWBR-04-359-374-071	VN078529.D	14 Jul 2023 18:02	vial A pH<2	JC\MD	Ok
24	O3637-01	A508	VN078530.D	14 Jul 2023 18:27	vial A pH<2 Need 20X	JC\MD	Dilution
25	VSTDCCC050	VSTDCCC050EC	VN078531.D	14 Jul 2023 18:51		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071323

Review By	John Carlone	Review On	7/14/2023 9:50:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/14/2023 11:38:15 AM		
SubDirectory	VY071323	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121713
Initial Calibration Stds	VP121716,VP121717,VP121718,VP121719,VP121721,VP121722
CCC	VP121726,LOQ-VP121725
Internal Standard/PEM	VP120390
ICV/I.BLK	VP121723
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY014619.D	13 Jul 2023 08:36		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY014620.D	13 Jul 2023 09:05	Pass for DOD	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY014621.D	13 Jul 2023 09:31	LR-10,11 and QR-20	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY014622.D	13 Jul 2023 09:57	Not used	SY/MD	Not Ok
5	VSTDICCC050	VSTDICCC050	VY014623.D	13 Jul 2023 10:19		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY014624.D	13 Jul 2023 10:42		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY014625.D	13 Jul 2023 11:05		SY/MD	Ok,M
8	VIBLK	VIBLK	VY014626.D	13 Jul 2023 11:30		SY/MD	Ok
9	VSTDICC020	VSTDICC020	VY014627.D	13 Jul 2023 13:31		SY/MD	Ok,M
10	VSTDICV050	ICVVY071323	VY014628.D	13 Jul 2023 15:11		SY/MD	Ok,M
11	VY0713SBL01	VY0713SBL01	VY014629.D	13 Jul 2023 16:02		SY/MD	Ok
12	VY0713SBS01	VY0713SBS01	VY014630.D	13 Jul 2023 16:25		SY/MD	Ok,M
13	VY0713SBSD01	VY0713SBSD01	VY014631.D	13 Jul 2023 16:48		SY/MD	Ok,M
14	O3572-02	LOQ-SOIL-02-QT3-202	VY014632.D	13 Jul 2023 17:12		SY/MD	Ok,M
15	O3591-01	NB-8-071223	VY014633.D	13 Jul 2023 17:36	vial A	SY/MD	Ok
16	O3592-01	SOIL-PILE	VY014634.D	13 Jul 2023 18:00	vial A	SY/MD	Ok
17	O3601-01	HR-1-071223	VY014635.D	13 Jul 2023 18:24	vial A ,Internal standard fail	SY/MD	ReRun
18	VSTDCCC050	VSTDCCC050EC	VY014636.D	13 Jul 2023 18:47		SY/MD	Ok,M

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071723

Review By	John Carlone	Review On	7/18/2023 9:48:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/18/2023 3:13:39 PM		
SubDirectory	VY071723	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121779
Initial Calibration Stds	
CCC	VP121791,VP121792,MDL-VP121797,VP121798
Internal Standard/PEM	VP120390
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY014662.D	17 Jul 2023 09:07		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY014663.D	17 Jul 2023 11:00		SY/MD	Ok,M
3	VY0717SBL01	VY0717SBL01	VY014664.D	17 Jul 2023 11:54		SY/MD	Ok
4	VY0717SBS01	VY0717SBS01	VY014665.D	17 Jul 2023 12:23		SY/MD	Ok,M
5	VY0717SBSD01	VY0717SBSD01	VY014666.D	17 Jul 2023 12:46		SY/MD	Ok,M
6	O3572-03	MDL-SOIL-03-QT3-202	VY014667.D	17 Jul 2023 13:09		SY/MD	Ok,M
7	O3572-03	MDL-SOIL-03-QT3-202	VY014668.D	17 Jul 2023 13:32		SY/MD	Ok,M
8	O3613-01	TR-4-071323	VY014669.D	17 Jul 2023 13:57	vial A Internal standard fail	SY/MD	ReRun
9	O3633-01	SS-01-GRAB	VY014670.D	17 Jul 2023 14:20	vial A Internal standard fail	SY/MD	ReRun
10	O3580-02	SAMPLE-1	VY014671.D	17 Jul 2023 14:44	vial B Internal standard fail	SY/MD	Ok
11	O3580-03	SAMPLE-2	VY014672.D	17 Jul 2023 15:08	vial B Internal standard fail	SY/MD	Ok
12	O3632-01RE	SB-01-(2-4)RE	VY014673.D	17 Jul 2023 15:31	vial B Internal standard fail	SY/MD	Confirms
13	VIBLK	VIBLK	VY014674.D	17 Jul 2023 15:55		SY/MD	Ok
14	O3613-01RE	TR-4-071323RE	VY014675.D	17 Jul 2023 16:19	vial B Internal standard fail	SY/MD	Confirms
15	O3633-01RE	SS-01-GRABRE	VY014676.D	17 Jul 2023 16:43	vial B Internal standard fail	SY/MD	Confirms
16	O3631-01	SB-02(2-4)	VY014677.D	17 Jul 2023 17:07	vial A	SY/MD	Ok
17	O3631-04	SB-04(2-4)	VY014678.D	17 Jul 2023 17:30	vial A	SY/MD	Ok
18	O3631-05	SB-07(3-5)	VY014679.D	17 Jul 2023 17:54	vial A	SY/MD	Ok
19	O3631-06	SB-09(3-5)	VY014680.D	17 Jul 2023 18:18	vial A	SY/MD	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY071723

Review By	John Carlone	Review On	7/18/2023 9:48:52 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/18/2023 3:13:39 PM		
SubDirectory	VY071723	HP Acquire Method	MSVOA_Y	HP Processing Method	82y071323s.m

STD. NAME	STD REF.#
Tune/Reschk	VP121779
Initial Calibration Stds	
CCC	VP121791,VP121792,MDL-VP121797,VP121798
Internal Standard/PEM	VP120390
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	O3631-07	SB-10(5-6)	VY014681.D	17 Jul 2023 18:41	vial A	SY/MD	Ok
21	O3631-08	SB-11(3.5-4.5)	VY014682.D	17 Jul 2023 19:05	vial A	SY/MD	Ok
22	O3631-09	DUP	VY014683.D	17 Jul 2023 19:28	vial A	SY/MD	Ok
23	O3631-02MS	SB-02(2-4)MS	VY014684.D	17 Jul 2023 19:51	vial A Recovery Fail for some compound	SY/MD	Ok,M
24	O3631-03MSD	SB-02(2-4)MSD	VY014685.D	17 Jul 2023 20:14	vial A	SY/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VY014686.D	17 Jul 2023 20:37		SY/MD	Ok,M

M : Manual Integration

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/17/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:17
Out Date: 07/15/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126451

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3612-01	KMH300K-END-1-1	1	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3612-02	KMH300K-END-1-2	2	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3612-03	KZZ0454Y-END-1-1	3	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3612-04	KZZ0454Y-END-1-2	4	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3612-05	KMH55V-END-1-1	5	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3612-06	KMH55V-END-1-2	6	1.00	1.00	2.00	2.00	100.0	PILC REEL
O3621-01	OR-03-071323	7	1.16	8.47	9.63	9.05	93.2	
O3621-02	OR-03-071323-EPH-2	8	1.16	8.47	9.63	9.05	93.2	
O3624-05	SVOC-GPC-BLANK	9	1.00	1.00	2.00	2.00	100.0	
O3624-06	PEST-GPC-BLANK	10	1.00	1.00	2.00	2.00	100.0	
O3624-07	PEST-GPC-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
O3624-08	PCB-GPC-BLANK	12	1.00	1.00	2.00	2.00	100.0	
O3624-09	PCB-GPC-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
O3624-10	SVOC-GPC2-BLANK	14	1.00	1.00	2.00	2.00	100.0	
O3624-11	PEST-GPC2-BLANK	15	1.00	1.00	2.00	2.00	100.0	
O3624-12	PEST-GPC2-BLANK-SPIKE	16	1.00	1.00	2.00	2.00	100.0	
O3624-13	PCB-GCP2-BLANK	17	1.00	1.00	2.00	2.00	100.0	
O3624-14	PCB-GCP2-BLANK-SPIKE	18	1.00	1.00	2.00	2.00	100.0	
O3625-01	RBR200018	44	1.15	8.41	9.56	9.3	96.9	
O3625-03	RBR200018-EPH-2	45	1.13	8.55	9.68	9.38	96.5	
O3628-01	SS057P-MW01S-SB02-00G	19	1.15	8.80	9.95	9.04	89.7	
O3628-02	SS057P-MW01D-SB02-00G	20	1.16	8.83	9.99	9.23	91.4	
O3628-03	SS050P-MW02-SB02-00G	21	1.13	8.73	9.86	8.39	83.2	
O3629-01	AT016P-MW01D-SB02-00G	22	1.19	8.55	9.74	9.18	93.5	
O3629-02	AT016P-MW01I-SB02-00G	23	1.16	8.46	9.62	9.03	93.0	
O3629-03	AT016P-MW01S-SB02-00G	24	1.17	8.60	9.77	9.17	93.0	
O3631-01	SB-02(2-4)	33	1.13	8.69	9.82	8.54	85.3	
O3631-02	O3631-01MS	34	1.13	8.69	9.82	8.54	85.3	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/17/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 07/14/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:17
Out Date: 07/15/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126451

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3631-03	O3631-01MSD	35	1.13	8.69	9.82	8.54	85.3	
O3631-04	SB-04(2-4)	36	1.17	6.37	7.54	6.58	84.9	
O3631-05	SB-07(3-5)	37	1.11	5.59	6.7	5.94	86.4	
O3631-06	SB-09(3-5)	38	1.16	6.39	7.55	6.99	91.2	
O3631-07	SB-10(5-6)	39	1.19	5.93	7.12	5.8	77.7	
O3631-08	SB-11(3.5-4.5)	40	1.12	3.73	4.85	4.53	91.4	
O3631-09	DUP	41	1.19	6.14	7.33	6.51	86.6	
O3632-01	SB-01-(2-4)	25	1.18	8.59	9.77	8.52	85.4	
O3632-02	SB-02-(5-7)	26	1.15	8.82	9.97	7.88	76.3	
O3632-03	SB-03-(7-9)	27	1.15	8.40	9.55	7.85	79.8	
O3632-04	SB-04-(9-11)	28	1.16	8.77	9.93	7.9	76.9	
O3632-05	SB-05-(6-8)	29	1.19	8.73	9.92	8.38	82.4	
O3632-06	SB-09-(3-5)	30	1.15	8.81	9.96	8.84	87.3	
O3632-07	SB-10-(9-11)	31	1.14	8.84	9.98	8.36	81.7	
O3632-08	SB-12-(4-6)	32	1.12	8.58	9.7	8.46	85.5	
O3633-01	SS-01-GRAB	42	1.15	8.63	9.78	8.41	84.1	
O3633-02	SS-01-COMP	43	1.18	8.56	9.74	8.57	86.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

VB 126451

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071423 **WorkList ID :** 171874 **Department :** Wet-Chemistry **Date :** 07-14-2023 08:04:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3612-01	KMH300K-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3612-02	KMH300K-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3612-03	KZZ0454Y-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3612-04	KZZ0454Y-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3612-05	KMH55V-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3612-06	KMH55V-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3621-01	OR-03-071323	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/13/2023	Chemtech -SO
O3621-02	OR-03-071323-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/13/2023	Chemtech -SO
O3624-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/13/2023	Chemtech -SO
O3624-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-13	PCB-GCP2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3624-14	PCB-GCP2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	I11	07/07/2023	Chemtech -SO
O3625-01	RBR200018	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3625-03	RBR200018-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3628-01	SS057P-MW01S-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/10/2023	Chemtech -SO

Date/Time 07-14-23 15:35

Raw Sample Received by: 3D (COC)

Raw Sample Relinquished by: 3D (COC)

Date/Time 07-14-23 17:00

Raw Sample Received by: 3D (COC)

Raw Sample Relinquished by: 3D (COC)

VBJ 126451

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-071423 **WorkList ID :** 171874 **Department :** Wet-Chemistry **Date :** 07-14-2023 08:04:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3628-02	SS057P-MW01D-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/10/2023	Chemtech -SO
O3628-03	SS050P-MW02-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/10/2023	Chemtech -SO
O3629-01	AT016P-MW01D-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/13/2023	Chemtech -SO
O3629-02	AT016P-MW01I-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/13/2023	Chemtech -SO
O3629-03	AT016P-MW01S-SB02-00G	Solid	Percent Solids	Cool 4 deg C	WEST04	I11	07/13/2023	Chemtech -SO
O3631-01	SB-02(2-4)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-02	O3631-01MS	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-03	O3631-01MSD	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-04	SB-04(2-4)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-05	SB-07(3-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-06	SB-09(3-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-07	SB-10(5-6)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3631-08	SB-11(3.5-4.5)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/12/2023	Chemtech -SO
O3631-09	DUP	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/12/2023	Chemtech -SO
O3632-01	SB-01-(2-4)	Solid	Percent Solids	Cool 4 deg C	LABE01	H11	07/11/2023	Chemtech -SO
O3632-02	SB-02-(5-7)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/10/2023	Chemtech -SO
O3632-03	SB-03-(7-9)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/10/2023	Chemtech -SO
O3632-04	SB-04-(9-11)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/10/2023	Chemtech -SO
O3632-05	SB-05-(6-8)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/10/2023	Chemtech -SO
O3632-06	SB-09-(3-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/10/2023	Chemtech -SO
O3632-07	SB-10-(9-11)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/11/2023	Chemtech -SO

Date/Time 07-14-23 15:35

Raw Sample Received by: JB (CDC)

Raw Sample Relinquished by: JB (CDC)

Date/Time 07-14-23 17:00

Raw Sample Received by: JB (CDC)

Raw Sample Relinquished by: JB (CDC)

WORKLIST(Hardcopy Internal Chain)

126451

WorkList Name : %1-071423 **WorkList ID :** 171874 **Department :** Wet-Chemistry **Date :** 07-14-2023 08:04:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3632-08	SB-12-(4-6)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/11/2023	Chemtech -SO
O3633-01	SS-01-GRAB	Solid	Percent Solids	Cool 4 deg C	LIRO01	I11	07/14/2023	Chemtech -SO
O3633-02	SS-01-COMP	Solid	Percent Solids	Cool 4 deg C	LIRO01	I11	07/14/2023	Chemtech -SO

Date/Time 07-14-23 15:35
Raw Sample Received by: 3.0 (60C)
Raw Sample Relinquished by: 3.0 (60C)

Date/Time 07-14-23 17:00
Raw Sample Received by: [illegible]
Raw Sample Relinquished by: 3.0 (60C)

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O3631

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vn071423,vy071723,

Standard ID :
VP118161,VP118162,VP118164,VP119199,VP119200,VP120190,VP120390,VP120540,VP120947,VP121045,VP121396,VP121535,VP121536,VP121538,VP121576,VP121691,VP121759,VP121760,VP121761,VP121779,VP121785,VP121786,VP121788,VP121791,VP121792,VP121798,

Chemical ID :
MDL-VP121797,V10601,V12006,V12012,V12081,V12082,V12226,V12761,V12764,V12765,V12767,V12768,V12783,V12784,V12785,V12786,V12787,V12788,V12789,V12885,V13086,V13087,V13088,V13089,V13196,V13197,V13198,V13199,V13217,V13222,V13341,V13342,V13343,V13344,V13491,V13494,V13495,V13497,V13518,V13519,V13520,V13521,V13523,V13524,V13557,V13558,V13559,V13641,V13644,V13655,V13657,V13658,V13870,V13871,V13872,W2606,

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP118161	01/24/2023	07/24/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/25/2023

FROM 1.00000ml of V12783 + 1.00000ml of V12784 + 1.00000ml of V12785 + 1.00000ml of V12786 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1811	8260 Working Std(2-CVE)-500ppm	VP118162	01/24/2023	07/24/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/25/2023

FROM 7.50000ml of V13217 + 12.50000ml of VP118161 = Final Quantity: 20.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1813	8260 Working Std(2-CVE)-50ppm	VP118164	01/24/2023	07/24/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/25/2023

FROM 9.37500ml of V13217 + 0.62500ml of VP118161 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP119199	03/15/2023	09/10/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/17/2023

FROM 0.25000ml of V12765 + 1.00000ml of V12761 + 23.75000ml of V13222 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
254	8260 Working STD (BCM)-First source, 10PPM	VP119200	03/15/2023	09/10/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/17/2023

FROM 0.05000ml of V12765 + 9.95000ml of V13222 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
249	8260 Surrogate, 100PPM	VP120190	04/28/2023	09/15/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/02/2023

FROM 0.10000ml of V12006 + 24.90000ml of V13657 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP120390	05/05/2023	10/27/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/09/2023

FROM 0.05000ml of V12081 + 24.95000ml of V13657 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP120540	05/16/2023	11/16/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/17/2023

FROM 1.00000ml of V12768 + 1.50000ml of V12764 + 1.50000ml of V12767 + 16.00000ml of V13658 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP120947	06/05/2023	07/15/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/08/2023

FROM 0.40000ml of V12226 + 1.00000ml of V12885 + 1.00000ml of V13086 + 1.00000ml of V13087 + 1.00000ml of V13197 + 1.00000ml of V13198 + 1.00000ml of V13341 + 1.00000ml of V13342 + 1.00000ml of V13491 + 1.00000ml of V13497 + 1.00000ml of V13524 + 1.00000ml of V13557 + 1.50000ml of V13518 + 1.50000ml of V13519 + 10.60000ml of V13658 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP121045	06/08/2023	12/08/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/09/2023

FROM 0.50000ml of V10601 + 49.50000ml of V13655 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP121396	06/26/2023	12/26/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/28/2023

FROM 0.80000ml of V12012 + 49.20000ml of V13641 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP121535	07/05/2023	07/28/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/07/2023

FROM 1.00000ml of V13872 + 1.50000ml of V13870 + 1.50000ml of V13871 + 21.00000ml of V13641 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP121536	07/05/2023	07/28/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/07/2023

FROM 7.50000ml of V13641 + 12.50000ml of VP121535 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
181	8260 Working STD (Acrolein)-First source, 50PPM	VP121538	07/05/2023	07/28/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/07/2023

FROM 9.87500ml of V13641 + 0.62500ml of VP121535 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP121576	07/07/2023	12/26/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/07/2023

FROM 0.25000ml of V12082 + 24.75000ml of V13644 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP121691	07/13/2023	01/05/2024	Semsettin Yesilyurt	None	None	John Carlone 07/17/2023

FROM 0.20000ml of V12784 + 1.00000ml of V12787 + 1.00000ml of V12788 + 1.00000ml of V12789 + 36.80000ml of V13644 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP121759	07/14/2023	07/15/2023	John Carlone	None	None	Mahesh Dadoda 07/17/2023

FROM 39.98400ml of W2606 + 0.01600ml of VP121045 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP121760	07/14/2023	07/15/2023	John Carlone	None	None	Mahesh Dadoda 07/17/2023

FROM 39.94450ml of W2606 + 0.00500ml of VP120540 + 0.00500ml of VP121396 + 0.00800ml of VP121576 + 0.01250ml of VP120947 + 0.01250ml of VP121535 + 0.01250ml of VP121691 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP121761	07/14/2023	07/15/2023	John Carlone	None	None	Mahesh Dadoda 07/17/2023

FROM 39.94450ml of W2606 + 0.00500ml of VP120540 + 0.00500ml of VP121396 + 0.00800ml of VP121576 + 0.01250ml of VP120947 + 0.01250ml of VP121535 + 0.01250ml of VP121691 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP121779	07/17/2023	07/18/2023	Mahesh Dadoda	None	None	John Carlone 07/20/2023

FROM 4.99800ml of W2606 + 0.00200ml of VP121045 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP121785	07/17/2023	08/26/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/20/2023

FROM 0.40000ml of V12226 + 0.50000ml of V13089 + 0.50000ml of V13199 + 0.50000ml of V13344 + 0.50000ml of V13495 + 0.50000ml of V13559 + 1.00000ml of V13523 + 1.50000ml of V13088 + 1.50000ml of V13196 + 1.50000ml of V13343 + 1.50000ml of V13494 + 1.50000ml of V13520 + 1.50000ml of V13521 + 1.50000ml of V13558 + 10.60000ml of V13644 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP121786	07/17/2023	08/26/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/20/2023

FROM 5.62500ml of V13644 + 9.37500ml of VP121785 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
246	8260 Calibration Working STD Mix-First source, 10PPM	VP121788	07/17/2023	08/26/2023	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/20/2023

FROM 9.37500ml of V13644 + 0.62500ml of VP121785 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP121791	07/17/2023	07/18/2023	Mahesh Dadoda	None	None	John Carlone 07/20/2023

FROM 4.98000ml of W2606 + 0.00250ml of VP118162 + 0.00250ml of VP119199 + 0.00250ml of VP120190 + 0.00250ml of VP121536 + 0.00250ml of VP121786 + 0.00500ml of VP120390 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP121792	07/17/2023	07/18/2023	Mahesh Dadoda	None	None	John Carlone 07/20/2023

FROM 4.98000ml of W2606 + 0.00250ml of VP118162 + 0.00250ml of VP119199 + 0.00250ml of VP120190 + 0.00250ml of VP121536 + 0.00250ml of VP121786 + 0.00500ml of VP120390 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3763	4.0 PPB 8260 SOIL MDL	VP121798	07/17/2023	07/18/2023	Mahesh Dadoda	None	None	John Carlone 07/20/2023

FROM 4.98000ml of W2606 + 0.00200ml of VP118164 + 0.00200ml of VP119200 + 0.00200ml of VP121538 + 0.00200ml of VP121788 + 0.00250ml of VP120190 + 0.00500ml of VP120390 = Final Quantity: 5.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0147670	12/12/2023	12/12/2022 / SAM	01/09/2020 / sam	V10601

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0173020	09/15/2023	03/15/2023 / SAM	06/04/2021 / SAM	V12006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0173020	12/26/2023	06/26/2023 / SAM	06/04/2021 / SAM	V12012

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0173600	11/04/2023	05/04/2023 / SAM	06/22/2021 / SAM	V12081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0173600	12/26/2023	06/26/2023 / SAM	06/22/2021 / SAM	V12082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0168291	09/27/2023	03/27/2023 / SAM	10/15/2021 / SAM	V12226

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0176219	09/15/2023	03/15/2023 / SAM	03/25/2022 / SAM	V12761

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0176219	11/16/2023	05/16/2023 / SAM	03/25/2022 / SAM	V12764

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0176219	09/15/2023	03/15/2023 / SAM	03/25/2022 / SAM	V12765

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0176219	11/16/2023	05/16/2023 / SAM	03/25/2022 / SAM	V12767

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0176219	11/16/2023	05/16/2023 / SAM	03/25/2022 / SAM	V12768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	07/24/2023	01/24/2023 / SAM	03/30/2022 / SAM	V12783

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	12/13/2024	01/24/2023 / SAM	03/30/2022 / SAM	V12784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	07/24/2023	01/24/2023 / SAM	03/30/2022 / SAM	V12785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	07/24/2023	01/24/2023 / SAM	03/30/2022 / SAM	V12786

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	01/13/2024	07/13/2023 / SAM	03/30/2022 / SAM	V12787

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	01/13/2024	07/13/2023 / SAM	03/30/2022 / SAM	V12788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	121321	01/13/2024	07/13/2023 / SAM	03/30/2022 / SAM	V12789

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	11/18/2023	05/18/2023 / SAM	04/26/2022 / SAM	V12885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0187424	11/18/2023	05/18/2023 / SAM	08/12/2022 / SAM	V13086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0187424	11/18/2023	05/18/2023 / SAM	08/12/2022 / SAM	V13087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0187424	12/26/2023	06/26/2023 / SAM	08/12/2022 / SAM	V13088

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0187424	12/26/2023	06/26/2023 / SAM	08/12/2022 / SAM	V13089

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0186868	12/26/2023	06/26/2023 / SAM	09/01/2022 / SAM	V13196

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0186868	11/18/2023	05/18/2023 / SAM	09/01/2022 / SAM	V13197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0186868	11/18/2023	05/18/2023 / SAM	09/01/2022 / SAM	V13198

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0186868	12/26/2023	06/26/2023 / SAM	09/01/2022 / SAM	V13199

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2362001	07/24/2023	01/24/2023 / SAM	09/13/2022 / SAM	V13217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2362001	09/10/2023	03/10/2023 / SAM	09/13/2022 / SAM	V13222

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	11/18/2023	05/18/2023 / SAM	11/18/2022 / SAM	V13341

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	11/18/2023	05/18/2023 / SAM	11/18/2022 / SAM	V13342

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/26/2023	06/26/2023 / SAM	11/18/2022 / SAM	V13343

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	032922	12/26/2023	06/26/2023 / SAM	11/18/2022 / SAM	V13344

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0188819	11/18/2023	05/18/2023 / SAM	01/27/2023 / SAM	V13491

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0188819	12/26/2023	06/26/2023 / SAM	01/27/2023 / SAM	V13494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0188819	12/26/2023	06/26/2023 / SAM	01/27/2023 / SAM	V13495

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0188819	12/05/2023	06/05/2023 / SAM	01/27/2023 / SAM	V13497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	11/18/2023	05/18/2023 / SAM	01/27/2023 / SAM	V13518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	11/18/2023	05/18/2023 / SAM	01/27/2023 / SAM	V13519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	12/26/2023	06/26/2023 / SAM	01/27/2023 / SAM	V13520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	12/26/2023	06/26/2023 / SAM	01/27/2023 / SAM	V13521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	12/26/2023	06/26/2023 / SAM	01/27/2023 / SAM	V13523

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0190554	11/18/2023	05/18/2023 / SAM	01/27/2023 / SAM	V13524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	11/18/2023	05/18/2023 / SAM	01/30/2023 / SAM	V13557

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	12/26/2023	06/26/2023 / SAM	01/30/2023 / SAM	V13558

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	042921	12/26/2023	06/26/2023 / SAM	01/30/2023 / SAM	V13559

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	12/26/2023	06/26/2023 / SAM	02/23/2023 / SAM	V13641

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	01/05/2024	07/05/2023 / SAM	02/23/2023 / SAM	V13644

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	12/08/2023	06/08/2023 / SAM	02/23/2023 / SAM	V13655

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	10/27/2023	04/27/2023 / SAM	02/23/2023 / SAM	V13657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	11/16/2023	05/16/2023 / SAM	02/23/2023 / SAM	V13658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	062823	07/28/2023	07/05/2023 / SAM	06/29/2023 / SAM	V13870

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	062823	07/28/2023	07/05/2023 / SAM	06/29/2023 / SAM	V13871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	062823	07/28/2023	07/05/2023 / SAM	06/29/2023 / SAM	V13872

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22C2862010
Manufactured Date: 2022-02-15
Expiration Date: 2025-02-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	< 0.02
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

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Packaging Site: Phillipsburg Mfg Ctr & DC

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Jamie Ethier
Vice President Global Quality

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 042921
Description: Universal VOA Megamix
69 components
Expiration Date: 042924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

Solvent(s): Methanol
Lot# DY186-USQ8

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By: Eli Aliaga 042921 DATE

Reviewed By: Pedro L. Rentas 042921 DATE

Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20041	2002.0	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20233	2003.0	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20751	2002.4	8.4	110-57-6	N/A	N/A
6. Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20048	2002.3	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20230	2002.7	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0488)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20130	2002.8	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20123	2002.1	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20220	2001.7	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20048	2002.7	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20216	2001.5	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20585	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20418	2000.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20221	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	100220	0.05	5.00	40018.8	2000	NA	NA	0.017	NA	NA	2000.8	18.4	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	100220	0.05	5.00	40007.7	2000	NA	NA	0.017	NA	NA	2000.3	18.4	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	100220	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	100220	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	2000.2	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	100220	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	031821	0.10	10.00	20009.1	2000	NA	NA	0.042	NA	NA	2000.8	19.3	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	011421	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	011421	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	011421	0.05	5.00	40004.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	011421	0.05	5.00	40002.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	011421	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	011421	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	26.1	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	011421	0.05	5.00	40004.4	2000	NA	NA	0.017	NA	NA	2000.1	18.4	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	011421	0.05	5.00	40009.1	2000	NA	NA	0.017	NA	NA	2000.4	18.5	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	011421	0.05	5.00	40003.5	2000	NA	NA	0.017	NA	NA	2000.1	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.0	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	011421	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	011421	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	011421	0.05	5.00	40015.2	2000	NA	NA	0.017	NA	NA	2000.7	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48. Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	020821	0.05	5.00	40022.5	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

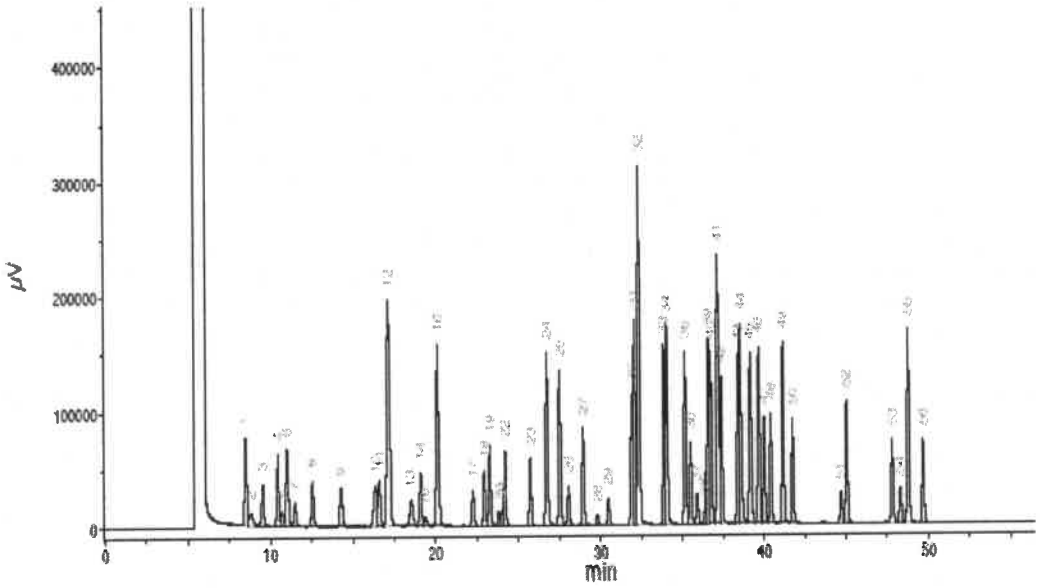
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 22, "P95317 L042921 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35999 points at 10 points/second.
Created: Thu, Apr 29, 2021 at 3:49:30 PM.
Sampled: Sequence "042521-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=4



Peak #	Analyte	FID RT (min.)
1	Ether	8.48
2	1,1,2-Trichloro-1,2,2-trifluoroethane	8.90
3	1,1-Dichloroethene	9.51
4	Acetonitrile	10.44
5	Iodoethane	10.71
6	Allyl chloride	11.02
7	Carbon disulfide/Methylene chloride	11.51
8	trans-1,2-Dichloroethene	12.55
9	1,1-Dichloroethane	14.28
10	2,2-Dichloropropane	16.33
11	cis-1,2-Dichloroethene	16.59
12	Methacrylonitrile/Methyl acrylate/Chloroform	17.14
13	Isobutanol/1,1,1-Trichloroethane	18.32
14	1,1-Dichloropropene	19.08
15	Carbon tetrachloride	19.39
16	Benzene/1,2-Dichloroethane	20.10
17	Trichloroethene	22.03
18	1,2-Dichloropropane	22.92
19	Methyl methacrylate	23.26
20	Bromodichloromethane	23.75
21	Dibromomethane	23.98
22	2-Nitropropane	24.18
23	cis-1,3-Dichloropropene	25.71
24	Toluene	26.71
25	Ethyl methacrylate/trans-1,3-Dichloropropene	27.90
26	1,1,2-Trichloroethane	28.04
27	Tetrachloroethene/1,3-Dichloropropane	28.92
28	Dibromochloromethane	29.79
29	1,2-Dibromoethane	30.46
30	Chlorobenzene	31.89
31	Ethylbenzene/1,1,1,2-Tetrachloroethane	32.07
32	m-Xylene/p-Xylene	32.33
33	o-Xylene	33.87
34	Styrene	34.04
35	Isopropylbenzene/Bromoform	35.14
36	cis-1,4-Dichloro-2-butene	35.49
37	1,1,2,2-Tetrachloroethane	35.90
38	1,2,3-Trichloropropane	36.34
39	n-Propylbenzene	36.58
40	trans-1,4-Dichloro-2-butene/Bromobenzene	36.73
41	1,3,5-Trimethylbenzene/2-Chlorotoluene	37.17
42	4-Chlorotoluene	37.38
43	tert-Butylbenzene	38.41
44	1,2,4-Trimethylbenzene/Pentachloroethane	38.55
45	sec-Butylbenzene	38.16
46	p-Isopropyltoluene	39.68
47	1,3-Dichlorobenzene	40.01
48	1,4-Dichlorobenzene	40.42
49	n-Butylbenzene	41.16
50	1,2-Dichlorobenzene	41.74
51	1,2-Dibromo-3-chloropropane	44.68
52	Nitrobenzene	45.04
53	1,2,4-Trichlorobenzene	47.80
54	Hexachlorobutadiene	48.39
55	Naphthalene	48.76
56	1,2,3-Trichlorobenzene	49.66

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 042921
Description: Universal VOA Megamix
69 components
Expiration Date: 042924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

Solvent(s): Methanol
Lot# DY186-USQ8

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By: Eli Aliaga 042921 DATE

Reviewed By: Pedro L. Rentas 042921 DATE

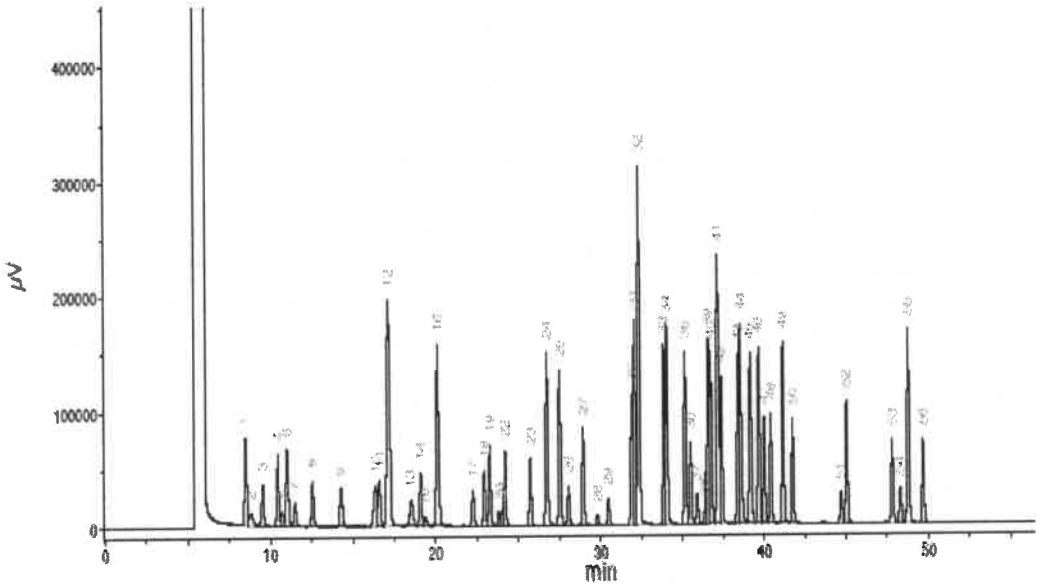
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20041	2002.0	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20233	2003.0	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20751	2002.4	8.4	110-57-6	N/A	N/A
6. Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20048	2002.3	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7. Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20230	2002.7	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0488)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20130	2002.8	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20123	2002.1	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20220	2001.7	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20048	2002.7	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20216	2001.5	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20585	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20418	2000.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20221	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	100220	0.05	5.00	40018.8	2000	NA	NA	0.017	NA	NA	2000.8	18.4	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	100220	0.05	5.00	40007.7	2000	NA	NA	0.017	NA	NA	2000.3	18.4	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	100220	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	100220	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	2000.2	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	100220	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	031821	0.10	10.00	20009.1	2000	NA	NA	0.042	NA	NA	2000.8	19.3	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	011421	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	011421	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	011421	0.05	5.00	40004.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	011421	0.05	5.00	40002.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	011421	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	011421	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	26.1	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	011421	0.05	5.00	40004.4	2000	NA	NA	0.017	NA	NA	2000.1	18.4	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	011421	0.05	5.00	40009.1	2000	NA	NA	0.017	NA	NA	2000.4	18.5	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	011421	0.05	5.00	40003.5	2000	NA	NA	0.017	NA	NA	2000.1	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.0	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	011421	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	011421	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	011421	0.05	5.00	40015.2	2000	NA	NA	0.017	NA	NA	2000.7	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48. Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	020821	0.05	5.00	40022.5	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 22, "P95317 L042921 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35999 points at 10 points/second.
Created: Thu, Apr 29, 2021 at 3:49:30 PM.
Sampled: Sequence "042521-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=4



Peak #	Analyte	FID RT (min.)
1	Ether	8.48
2	1,1,2-Trichloro-1,2,2-trifluoroethane	8.90
3	1,1-Dichloroethene	9.51
4	Acetonitrile	10.44
5	Iodoethane	10.71
6	Allyl chloride	11.02
7	Carbon disulfide/Methylene chloride	11.51
8	trans-1,2-Dichloroethene	12.55
9	1,1-Dichloroethane	14.28
10	2,2-Dichloropropane	16.33
11	cis-1,2-Dichloroethene	16.59
12	Methacrylonitrile/Methyl acrylate/Chloroform	17.14
13	Isobutanol/1,1,1-Trichloroethane	18.32
14	1,1-Dichloropropene	19.08
15	Carbon tetrachloride	19.39
16	Benzene/1,2-Dichloroethane	20.10
17	Trichloroethene	22.03
18	1,2-Dichloropropane	22.92
19	Methyl methacrylate	23.26
20	Bromodichloromethane	23.79
21	Dibromomethane	23.98
22	2-Nitropropane	24.18
23	cis-1,3-Dichloropropene	25.71
24	Toluene	26.71
25	Ethyl methacrylate/trans-1,3-Dichloropropene	27.90
26	1,1,2-Trichloroethane	28.04
27	Tetrachloroethene/1,3-Dichloropropane	28.92
28	Dibromochloromethane	29.79
29	1,2-Dibromoethane	30.46
30	Chlorobenzene	31.89
31	Ethylbenzene/1,1,1,2-Tetrachloroethane	32.07
32	m-Xylene/p-Xylene	32.33
33	o-Xylene	33.87
34	Styrene	34.04
35	Isopropylbenzene/Bromoform	35.14
36	cis-1,4-Dichloro-2-butene	35.49
37	1,1,2,2-Tetrachloroethane	35.90
38	1,2,3-Trichloropropane	36.34
39	n-Propylbenzene	36.58
40	trans-1,4-Dichloro-2-butene/Bromobenzene	36.73
41	1,3,5-Trimethylbenzene/2-Chlorotoluene	37.17
42	4-Chlorotoluene	37.38
43	tert-Butylbenzene	38.41
44	1,2,4-Trimethylbenzene/Pentachloroethane	38.55
45	sec-Butylbenzene	38.16
46	p-Isopropyltoluene	39.68
47	1,3-Dichlorobenzene	40.01
48	1,4-Dichlorobenzene	40.42
49	n-Butylbenzene	41.16
50	1,2-Dichlorobenzene	41.74
51	1,2-Dibromo-3-chloropropane	44.68
52	Nitrobenzene	45.04
53	1,2,4-Trichlorobenzene	47.80
54	Hexachlorobutadiene	48.39
55	Naphthalene	48.76
56	1,2,3-Trichlorobenzene	49.66

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 042921
Description: Universal VOA Megamix
69 components
Expiration Date: 042924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Solvent(s): Lot#
Methanol DY186-USQ8

Formulated By: Eli Aliaga 042921 DATE
Reviewed By: Pedro L. Rentas 042921 DATE

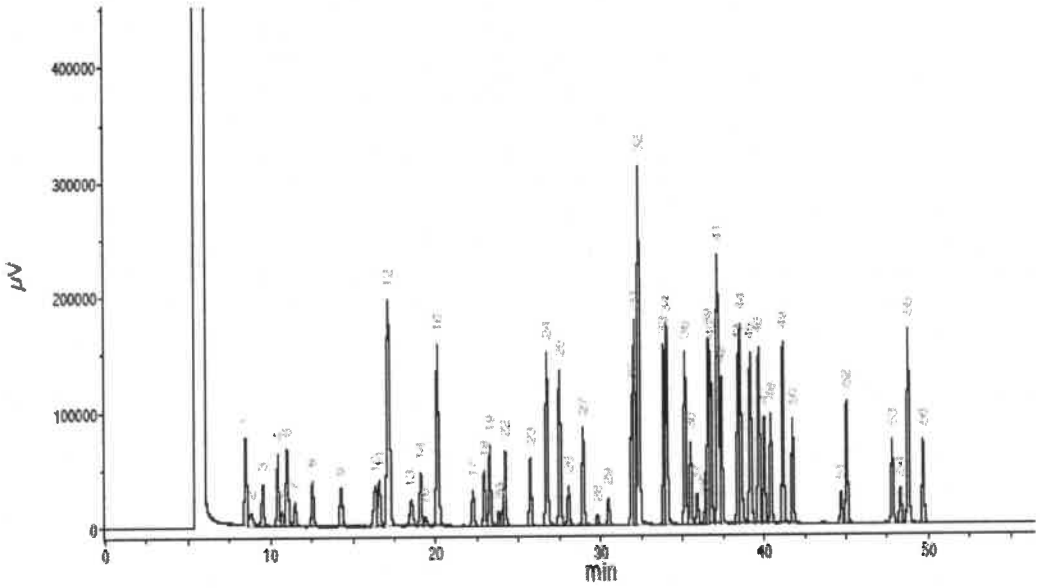
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20041	2002.0	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20233	2003.0	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20751	2002.4	8.4	110-57-6	N/A	N/A
6.	Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20048	2002.3	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7.	Ethyl methacrylate	(0361)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20230	2002.7	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0488)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20130	2002.8	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20123	2002.1	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20220	2001.7	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20048	2002.7	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20216	2001.5	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0481)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20585	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20418	2000.9	8.2	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20221	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	100220	0.05	5.00	40018.8	2000	NA	NA	0.017	NA	NA	2000.8	18.4	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	100220	0.05	5.00	40007.7	2000	NA	NA	0.017	NA	NA	2000.3	18.4	124-48-1	N/A	orl-rat 846mg/kg
19.	cis-1,2-Dichloroethene	35171	100220	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	100220	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	2000.2	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	100220	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	031821	0.10	10.00	20009.1	2000	NA	NA	0.042	NA	NA	2000.8	19.3	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	011421	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	011421	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	011421	0.05	5.00	40004.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	011421	0.05	5.00	40002.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	011421	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	011421	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	26.1	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	011421	0.05	5.00	40004.4	2000	NA	NA	0.017	NA	NA	2000.1	18.4	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	011421	0.05	5.00	40009.1	2000	NA	NA	0.017	NA	NA	2000.4	18.5	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	011421	0.05	5.00	40003.5	2000	NA	NA	0.017	NA	NA	2000.1	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.0	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	011421	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	011421	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	011421	0.05	5.00	40015.2	2000	NA	NA	0.017	NA	NA	2000.7	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	020821	0.05	5.00	40022.5	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 22, "P95317 L042921 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35999 points at 10 points/second.
Created: Thu, Apr 29, 2021 at 3:49:30 PM.
Sampled: Sequence "042521-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=4



Peak #	Analyte	FID RT (min.)
1	Ether	8.48
2	1,1,2-Trichloro-1,2,2-trifluoroethane	8.90
3	1,1-Dichloroethene	9.51
4	Acetonitrile	10.44
5	Iodoethane	10.71
6	Allyl chloride	11.02
7	Carbon disulfide/Methylene chloride	11.51
8	trans-1,2-Dichloroethene	12.55
9	1,1-Dichloroethane	14.28
10	2,2-Dichloropropane	16.33
11	cis-1,2-Dichloroethene	16.59
12	Methacrylonitrile/Methyl acrylate/Chloroform	17.14
13	Isobutanol/1,1,1-Trichloroethane	18.32
14	1,1-Dichloropropene	19.08
15	Carbon tetrachloride	19.39
16	Benzene/1,2-Dichloroethane	20.10
17	Trichloroethene	22.03
18	1,2-Dichloropropane	22.92
19	Methyl methacrylate	23.26
20	Bromodichloromethane	23.79
21	Dibromomethane	23.98
22	2-Nitropropane	24.18
23	cis-1,3-Dichloropropene	25.71
24	Toluene	26.71
25	Ethyl methacrylate/trans-1,3-Dichloropropene	27.90
26	1,1,2-Trichloroethane	28.04
27	Tetrachloroethene/1,3-Dichloropropane	28.92
28	Dibromochloromethane	29.79
29	1,2-Dibromoethane	30.46
30	Chlorobenzene	31.89
31	Ethylbenzene/1,1,1,2-Tetrachloroethane	32.07
32	m-Xylene/p-Xylene	32.33
33	o-Xylene	33.87
34	Styrene	34.04
35	Isopropylbenzene/Bromoform	35.14
36	cis-1,4-Dichloro-2-butene	35.49
37	1,1,2,2-Tetrachloroethane	35.90
38	1,2,3-Trichloropropane	36.34
39	n-Propylbenzene	36.58
40	trans-1,4-Dichloro-2-butene/Bromobenzene	36.73
41	1,3,5-Trimethylbenzene/2-Chlorotoluene	37.17
42	4-Chlorotoluene	37.38
43	tert-Butylbenzene	38.41
44	1,2,4-Trimethylbenzene/Pentachloroethane	38.55
45	sec-Butylbenzene	38.16
46	p-Isopropyltoluene	39.68
47	1,3-Dichlorobenzene	40.01
48	1,4-Dichlorobenzene	40.42
49	n-Butylbenzene	41.16
50	1,2-Dichlorobenzene	41.74
51	1,2-Dibromo-3-chloropropane	44.68
52	Nitrobenzene	45.04
53	1,2,4-Trichlorobenzene	47.80
54	Hexachlorobutadiene	48.39
55	Naphthalene	48.76
56	1,2,3-Trichlorobenzene	49.66

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 062823
Description: Acrolein

Solvent(s): Water **Lot#** 102422Q

Expiration Date: 072823
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

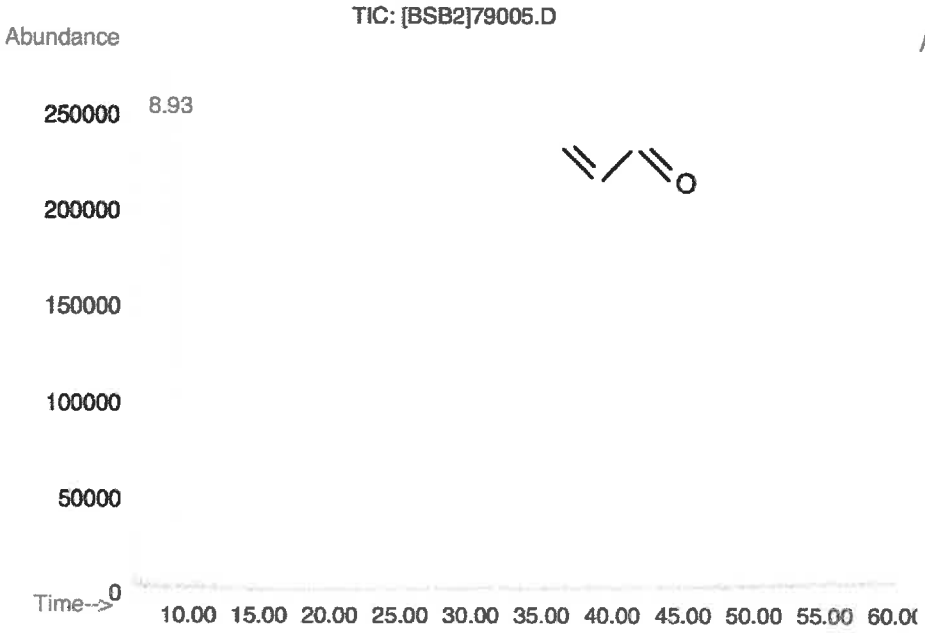
Weight(s) shown below were combined and diluted to (mL): 10.0 ± 0.001 Flask Uncertainty

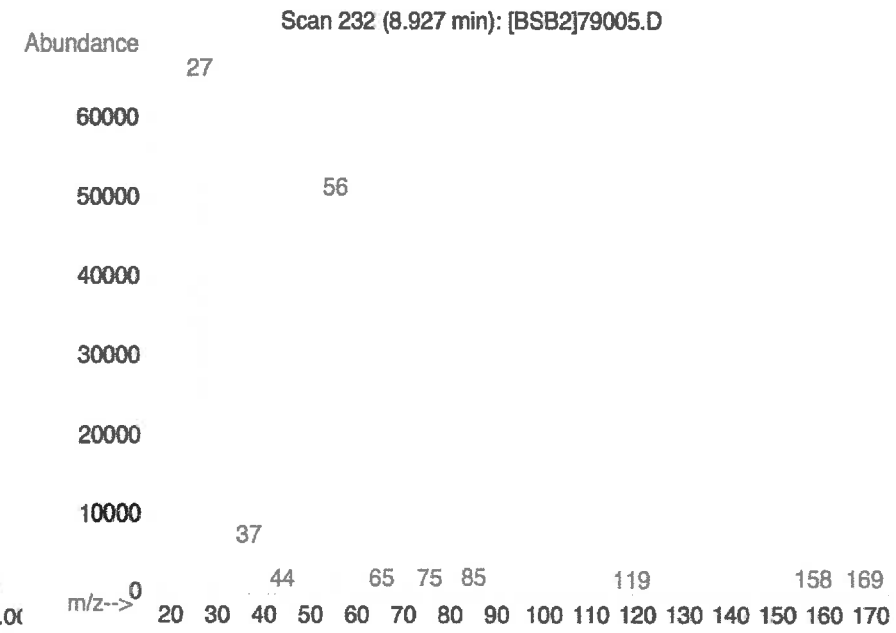
5E-05 Balance Uncertainty

Gabriel Helland	062823
Formulated By: Gabriel Helland	DATE
Pedro Rentas	062823
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05165	5004.4	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 062823
Description: Acrolein

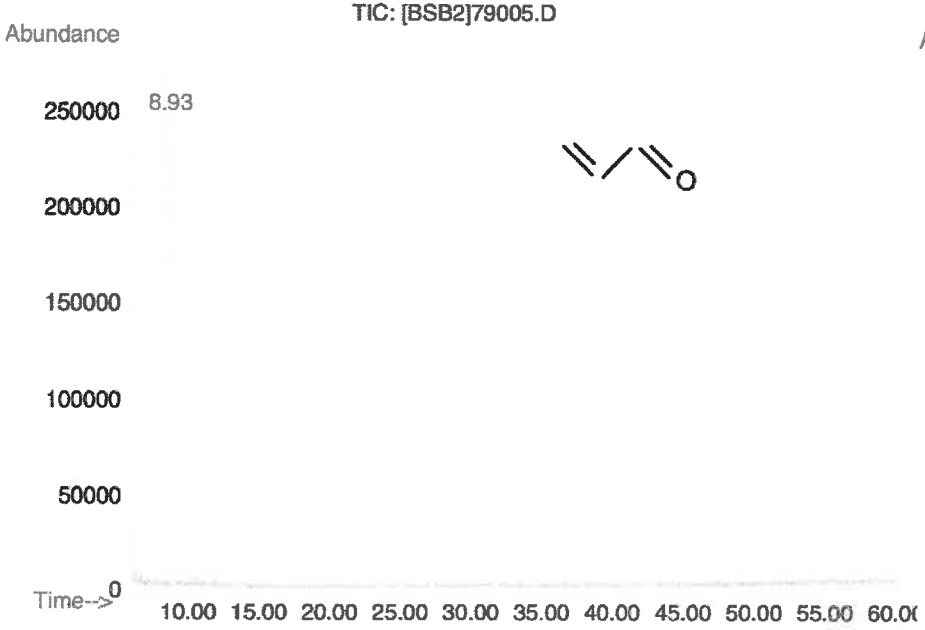
Solvent(s): Water **Lot#** 102422Q

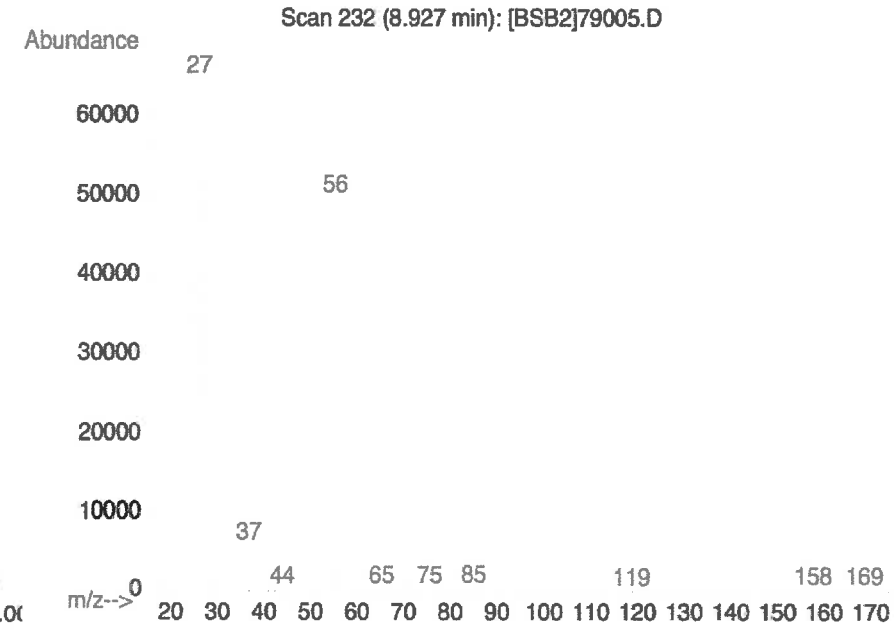
Expiration Date: 072823
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Gabriel Helland	062823
Formulated By: Gabriel Helland	DATE
Pedro Rentas	062823
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05165	5004.4	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 062823
Description: Acrolein

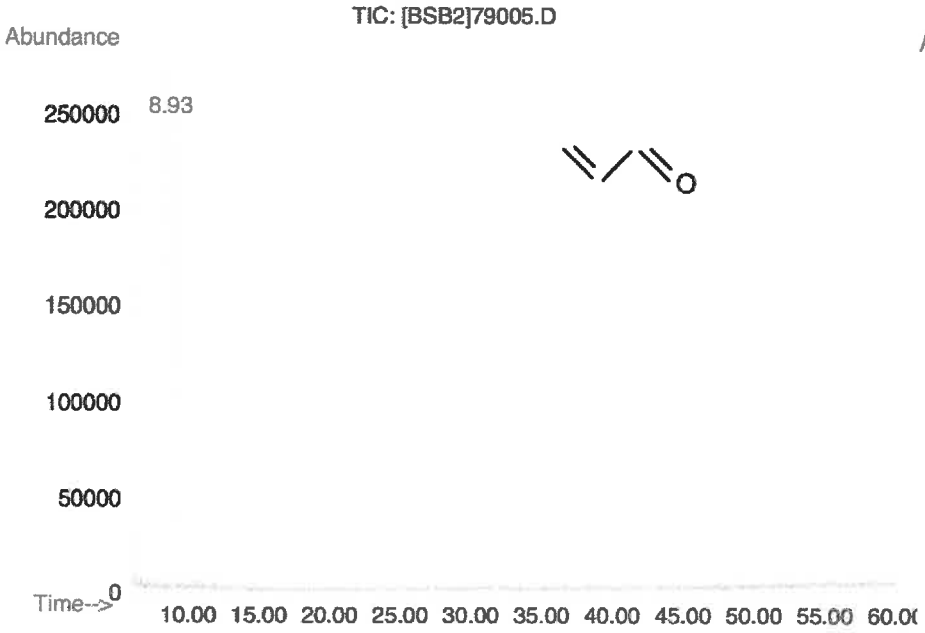
Solvent(s): Water **Lot#** 102422Q

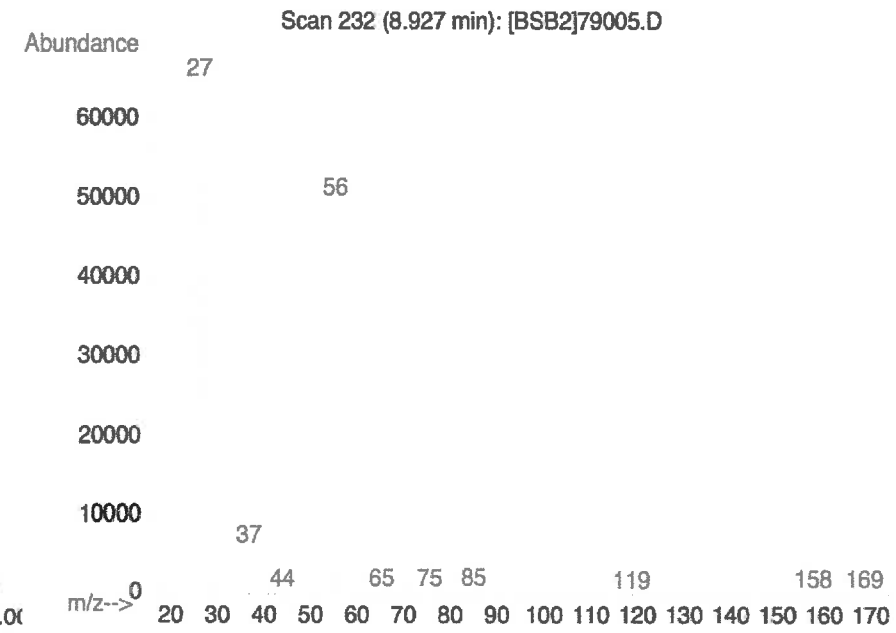
Expiration Date: 072823
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Gabriel Helland	062823
Formulated By: Gabriel Helland	DATE
Pedro Rentas	062823
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R09M	5000	97.1	0.5	0.05160	0.05165	5004.4	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Phone: 203-281-2917
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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	May 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

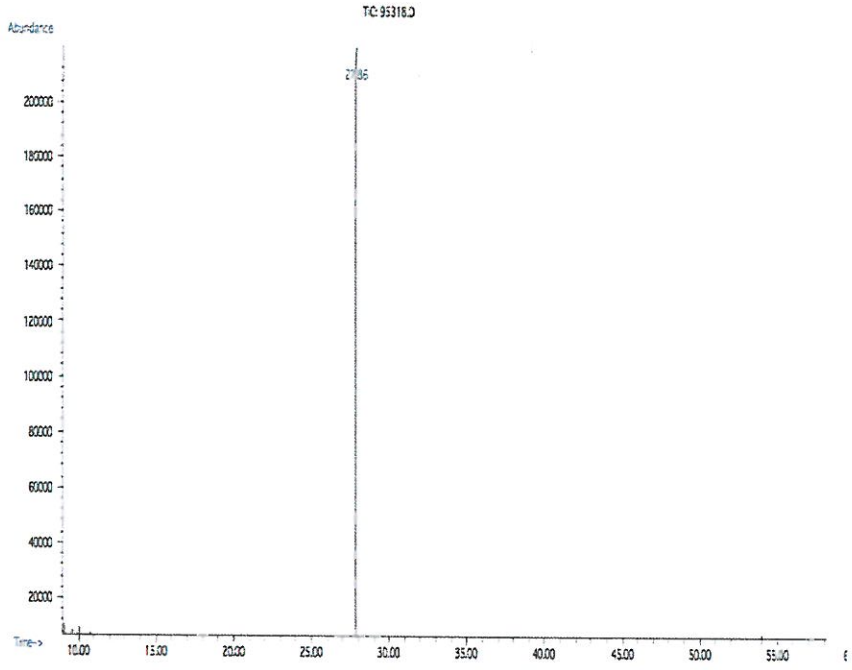
Solvent(s):	Lot#
Methanol	EA899-US

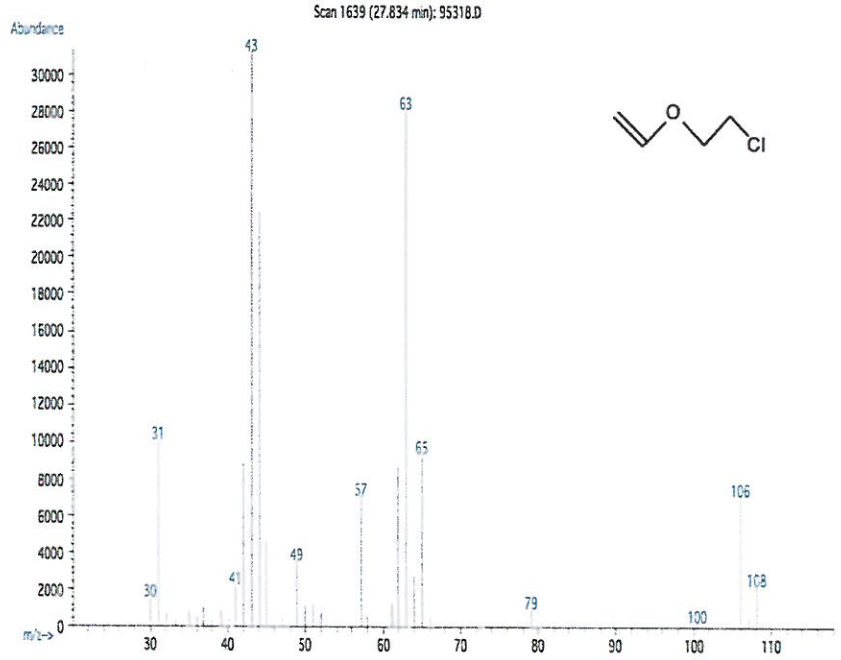
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

	121321
Formulated By: Benson Chan	DATE
	121321
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

O3631-VOCMS Group1 Revised

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

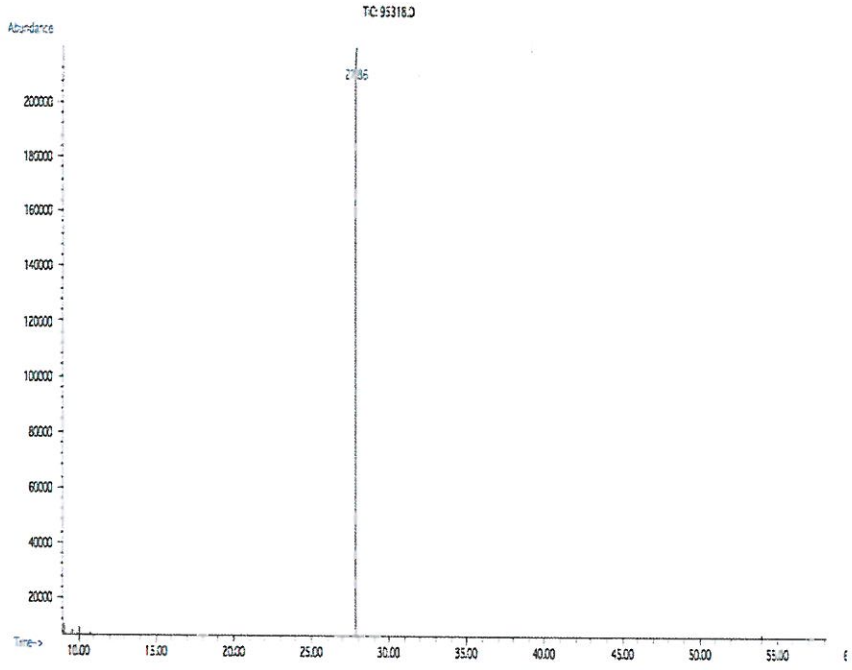
Solvent(s):	Lot#
Methanol	EA899-US

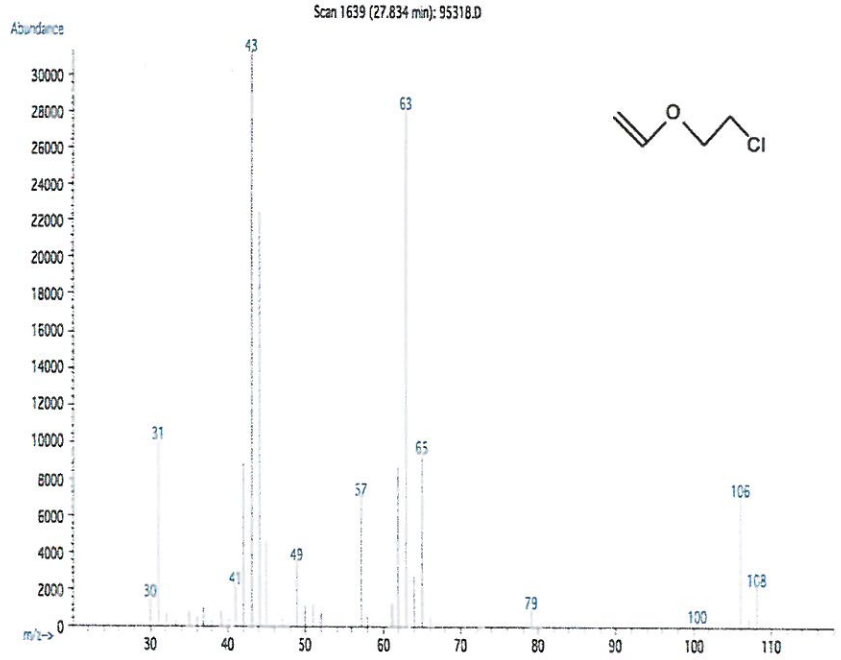
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

Formulated By: Benson Chan	121321 DATE
Reviewed By: Pedro L. Rentas	121321 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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O3631-VOCMS Group1 Revised

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EA899-US

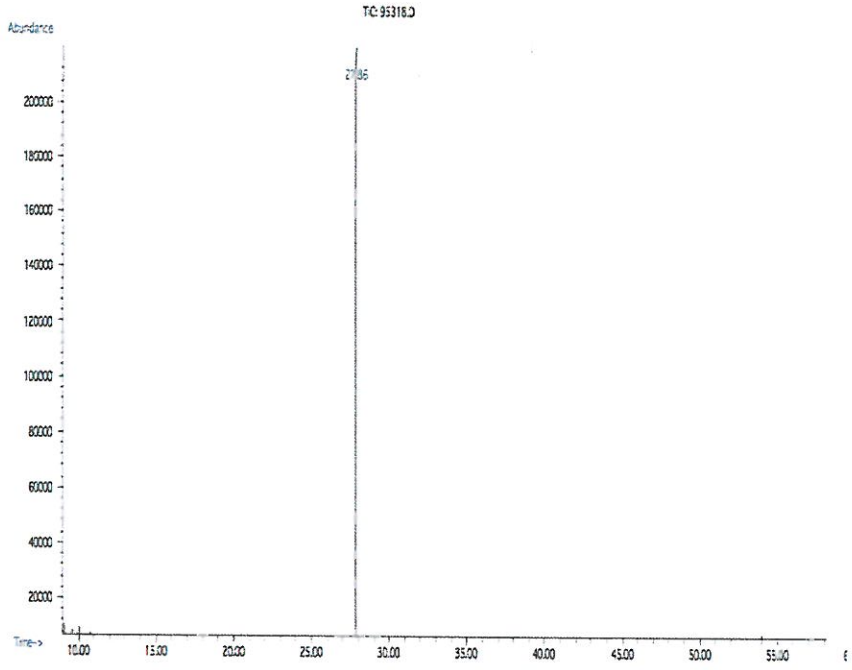
Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

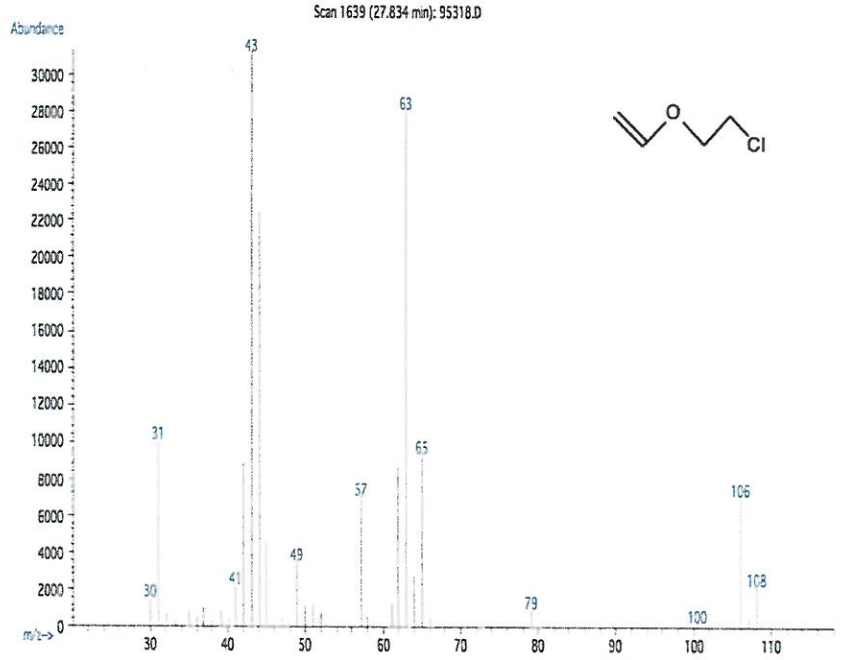
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

		121321
Formulated By:	Benson Chan	DATE
		121321
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

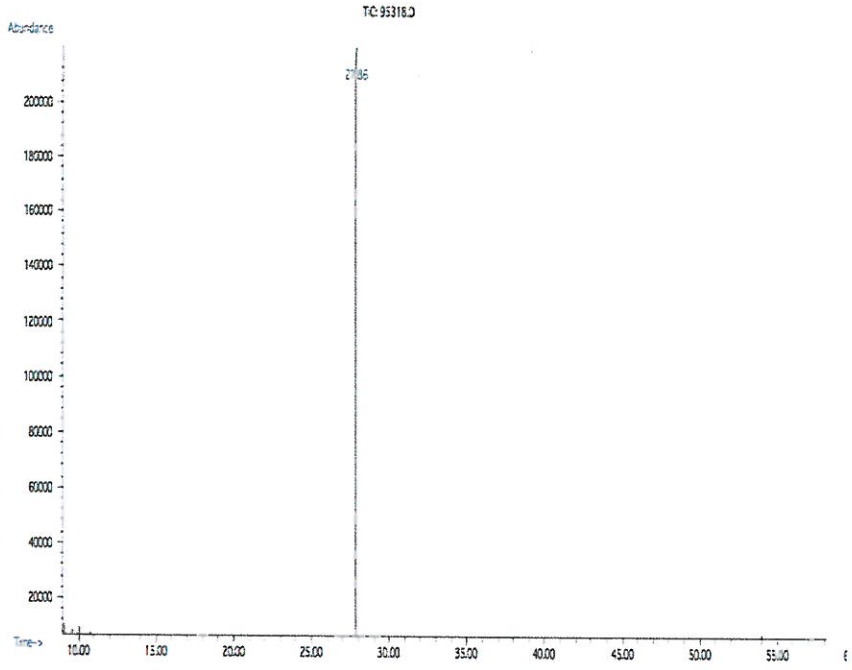
Solvent(s):	Lot#
Methanol	EA899-US

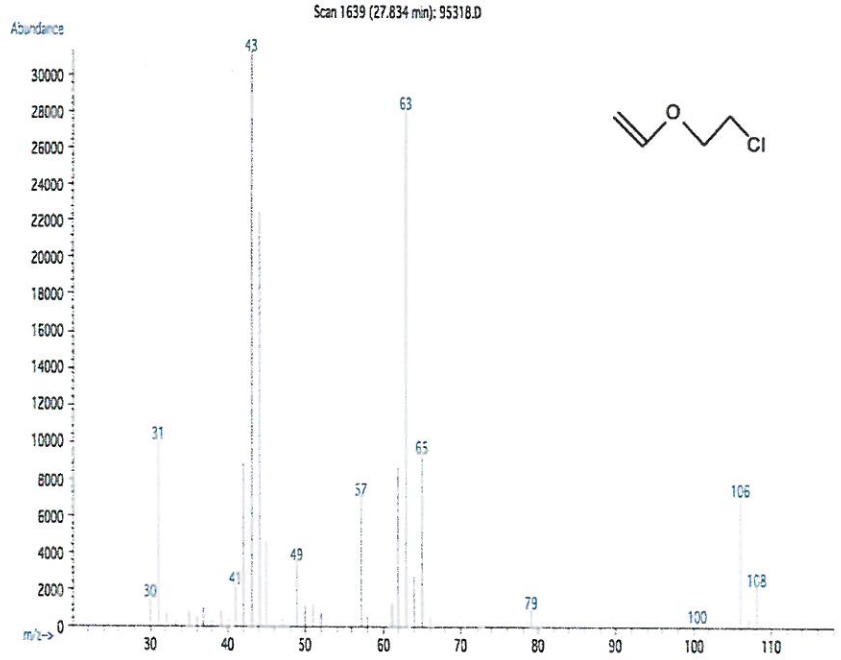
Weight(s) shown below were combined and diluted to (mL): 30.0 | 5E-05 Balance Uncertainty | 0.0003 Flask Uncertainty

Formulated By: Benson Chan	121321 DATE
Reviewed By: Pedro L. Rentas	121321 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.30320	0.30411	10030.2	40.7	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Expiration Date: 121324
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

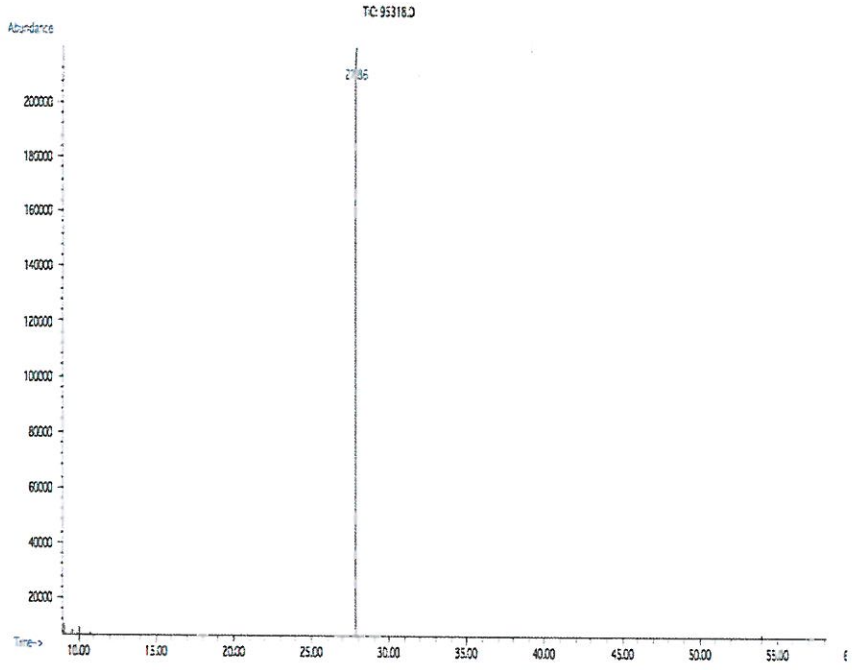
Solvent(s):	Lot#
Methanol	EA899-US

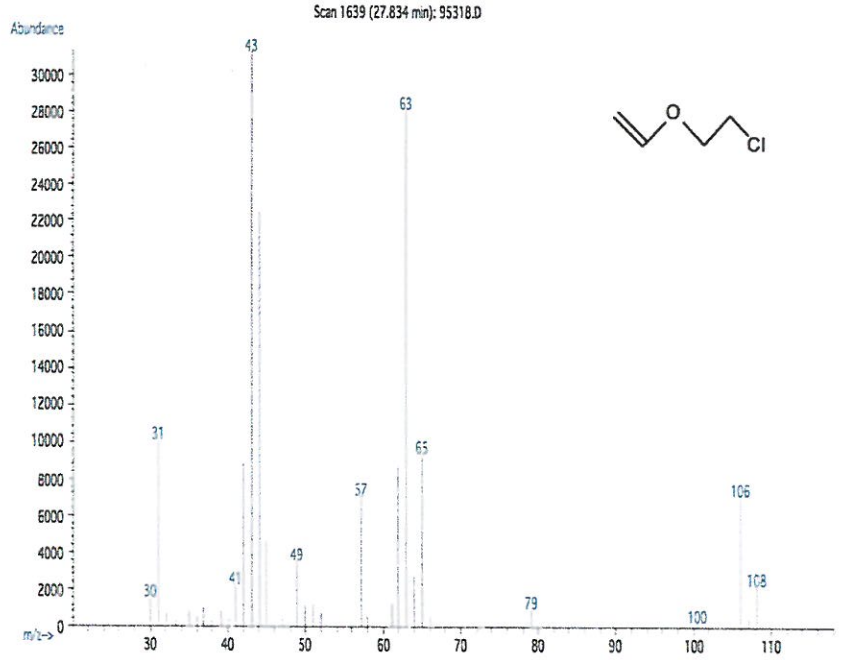
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Formulated By: Benson Chan	121321 DATE
Reviewed By: Pedro L. Rentas	121321 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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O3631-VOCMS Group1 Revised

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 121321
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EA899-US

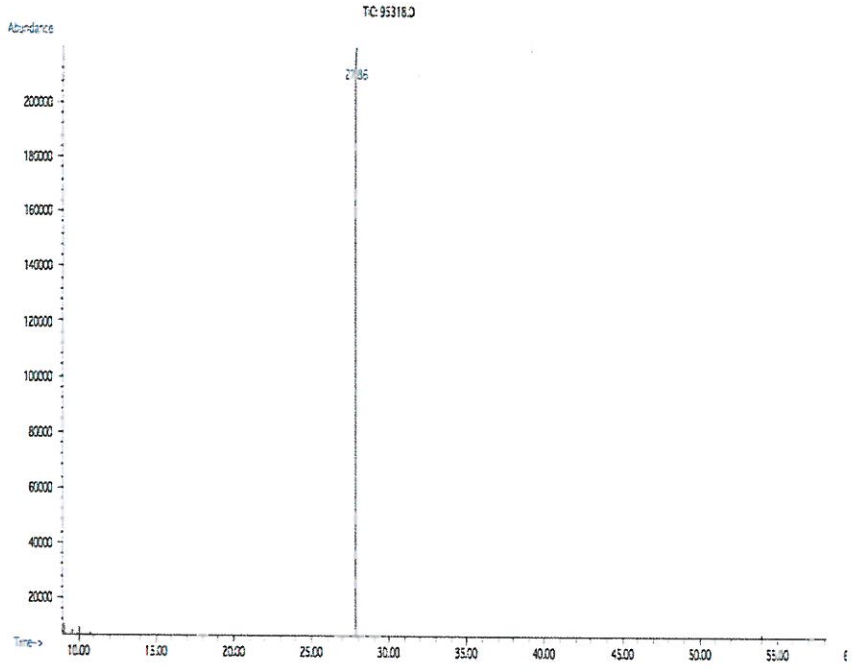
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Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

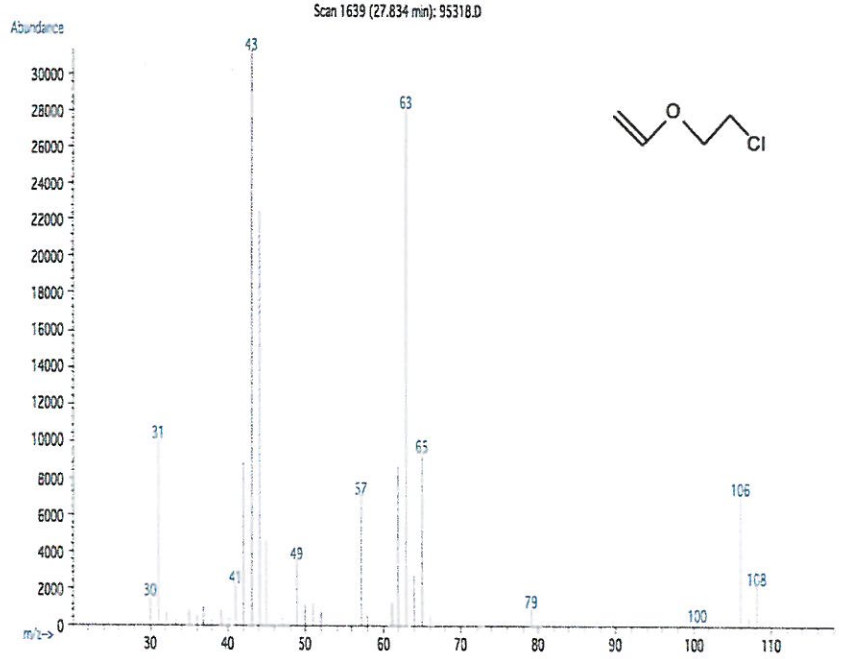
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Formulated By:	Benson Chan	DATE
		121321
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CERTIFIED WEIGHT REPORT

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Expiration Date: 121324
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Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

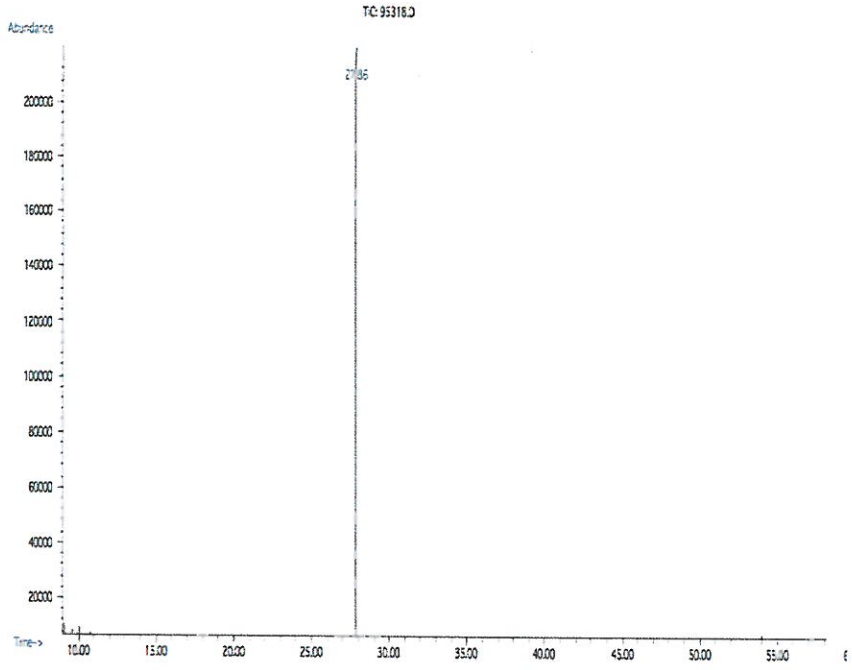
Solvent(s):	Lot#
Methanol	EA899-US

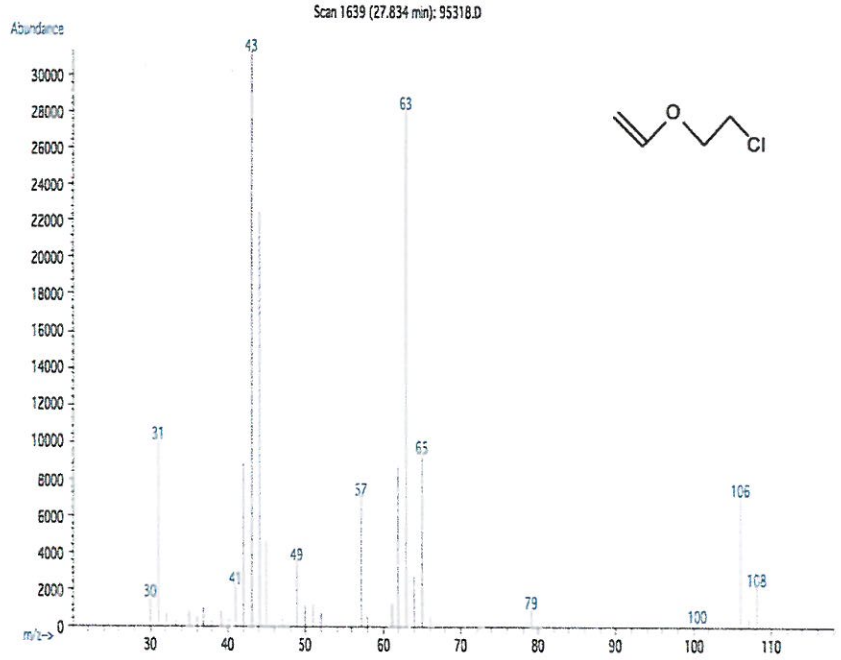
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Formulated By: Benson Chan	DATE
	121321
Reviewed By: Pedro L. Rentas	DATE

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0173020

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dichloroethane-d4	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 1,416.6261 µg/mL	Unstressed
	Purity 99%		+/- 1,449.2417 µg/mL	Stressed
2	1-Bromo-4-fluorobenzene (BFB)	25,188.0 µg/mL	+/- 233.0945 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 1,423.8618 µg/mL	Unstressed
	Purity 99%		+/- 1,456.6441 µg/mL	Stressed
3	Dibromofluoromethane	25,212.0 µg/mL	+/- 233.3166 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 1,425.2185 µg/mL	Unstressed
	Purity 99%		+/- 1,458.0320 µg/mL	Stressed
4	Toluene-d8	25,104.0 µg/mL	+/- 232.3171 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31750)		+/- 1,419.1134 µg/mL	Unstressed
	Purity 99%		+/- 1,451.7863 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Lane Kibe - Mix Technician

Date Mixed: 03-Jun-2021 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 05/24/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555582 / Custom 8260A/B Surrogate Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	90
1-Bromo-4-fluorobenzene (BFB)	460-00-4	207-300-2	2.5
1,2-dichloroethane-d4	17060-07-0		2.5
dibromofluoromethane	1868-53-7		2.5
toluene-d8	2037-26-5	218-009-5	2.5

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1-Bromo-4-fluorobenzene (BFB)	460-00-4	Not established	None Known	Not established	No data available
1,2-dichloroethane-d4	17060-07-0	Not established	None Known	Not established	No data available
dibromofluoromethane	1868-53-7	Not established	None Known	Not established	No data available
toluene-d8	2037-26-5	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	151.5 °C Boiling Point (at 1013.25 hPa) 64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	50
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%

Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1-bromo-4-fluoro-	460-00-4	Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 2700 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California

P&T Methanol	67-56-1	X	X	X	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	-
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 07/20/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0173020

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dichloroethane-d4	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 1,416.6261 µg/mL	Unstressed
	Purity 99%		+/- 1,449.2417 µg/mL	Stressed
2	1-Bromo-4-fluorobenzene (BFB)	25,188.0 µg/mL	+/- 233.0945 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 1,423.8618 µg/mL	Unstressed
	Purity 99%		+/- 1,456.6441 µg/mL	Stressed
3	Dibromofluoromethane	25,212.0 µg/mL	+/- 233.3166 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 1,425.2185 µg/mL	Unstressed
	Purity 99%		+/- 1,458.0320 µg/mL	Stressed
4	Toluene-d8	25,104.0 µg/mL	+/- 232.3171 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31750)		+/- 1,419.1134 µg/mL	Unstressed
	Purity 99%		+/- 1,451.7863 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Lane Kibe - Mix Technician

Date Mixed: 03-Jun-2021 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 05/24/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555582 / Custom 8260A/B Surrogate Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	90
1-Bromo-4-fluorobenzene (BFB)	460-00-4	207-300-2	2.5
1,2-dichloroethane-d4	17060-07-0		2.5
dibromofluoromethane	1868-53-7		2.5
toluene-d8	2037-26-5	218-009-5	2.5

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the

environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1-Bromo-4-fluorobenzene (BFB)	460-00-4	Not established	None Known	Not established	No data available
1,2-dichloroethane-d4	17060-07-0	Not established	None Known	Not established	No data available
dibromofluoromethane	1868-53-7	Not established	None Known	Not established	No data available
toluene-d8	2037-26-5	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	151.5 °C Boiling Point (at 1013.25 hPa) 64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	50
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Moderate; 50-99%

Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1-bromo-4-fluoro-	460-00-4	Inhalation LC50 Rat 18 g/m3 4 h; Oral LD50 Rat 2700 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	X
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California

P&T Methanol	67-56-1	X	X	X	X
1-Bromo-4-fluorobenzene (BFB)	460-00-4	-	-	-	-
1,2-dichloroethane-d4	17060-07-0	-	-	-	-
dibromofluoromethane	1868-53-7	-	-	-	-
toluene-d8	2037-26-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 07/20/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0173600

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-30447) **Purity** 99%	25,040.0 µg/mL	+/- 231.7249 µg/mL +/- 1,415.4955 µg/mL +/- 1,448.0851 µg/mL	Gravimetric Unstressed Stressed
2	1,4-Difluorobenzene **CAS #** 540-36-3 (Lot MKBN8571V) **Purity** 99%	25,216.0 µg/mL	+/- 233.3536 µg/mL +/- 1,425.4447 µg/mL +/- 1,458.2633 µg/mL	Gravimetric Unstressed Stressed
3	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-29571) **Purity** 99%	25,120.0 µg/mL	+/- 232.4652 µg/mL +/- 1,420.0178 µg/mL +/- 1,452.7116 µg/mL	Gravimetric Unstressed Stressed
4	Pentafluorobenzene **CAS #** 363-72-4 (Lot MKCK2250) **Purity** 99%	25,092.0 µg/mL	+/- 232.2061 µg/mL +/- 1,418.4350 µg/mL +/- 1,451.0923 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Walker Workman - Operations Technician I

Date Mixed: 18-Jun-2021 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Safety Data Sheet

Revision Date: 05/24/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555581 / Custom 8260 Internal Standard Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	8
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
P&T Methanol	67-56-1	200-659-6	90
1,4-difluorobenzene	540-36-3	208-742-9	2.5
pentafluorobenzene	363-72-4	206-658-7	2.5
1,4-dichlorobenzene-d4	3855-82-1		2.5
chlorobenzene-d5	3114-55-4	221-482-0	2.5

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the

area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,4-difluorobenzene	540-36-3	Not established	None Known	Not established	No data available
pentafluorobenzene	363-72-4	Not established	None Known	Not established	No data available
1,4-dichlorobenzene-d4	3855-82-1	Not established	None Known	Not established	No data available
chlorobenzene-d5	3114-55-4	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	36
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available

Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1,2,3,4,5-pentafluoro-	363-72-4	Oral LD50 Rat 2 g/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	X
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	-
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 12/15/16

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0173600

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
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Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Walker Workman - Operations Technician I

Date Mixed: 18-Jun-2021 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK

Safety Data Sheet

Revision Date: 05/24/21
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**555581 / Custom 8260 Internal Standard Mix**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
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Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	8
Intended use:	For Laboratory use only

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Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed or in contact with skin.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.
Single Exposure Target Organs:	Specific target organ toxicity - Single exposure - STOT SE 1: H370 Causes damage to organs. (C >= 10 %; No information to prove exclusion of certain routes of exposure); Specific target organ toxicity - Single exposure - STOT SE 2: H371 May cause damage to organs. (3 % <= C <10 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given)
Repeated Exposure Target Organs:	No data available

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Chemical Name	CAS #	EINEC #	% Composition
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Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire. Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the

area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
P&T Methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
1,4-difluorobenzene	540-36-3	Not established	None Known	Not established	No data available
pentafluorobenzene	363-72-4	Not established	None Known	Not established	No data available
1,4-dichlorobenzene-d4	3855-82-1	Not established	None Known	Not established	No data available
chlorobenzene-d5	3114-55-4	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	1.1 (air = 1)
Boiling Point (°C):	64.7 °C at 760 mmHg (HSDB)
Melting Point (°C):	-98 °C
Flash Point (°F):	36
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature (°C):	464 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available

Odor Threshold:	No data available
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	90
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption:	Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Benzene, 1,2,3,4,5-pentafluoro-	363-72-4	Oral LD50 Rat 2 g/kg
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.
No data available	

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Flammable liquids, n.o.s. (Methanol, Pentafluorobenzene)
UN Number:	UN1993
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
P&T Methanol	67-56-1	X	X	-	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	X
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
P&T Methanol	67-56-1	X	X	X	X
1,4-difluorobenzene	540-36-3	-	-	-	-
pentafluorobenzene	363-72-4	-	-	-	-
1,4-dichlorobenzene-d4	3855-82-1	-	-	-	-
chlorobenzene-d5	3114-55-4	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 12/15/16

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0176219

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane	2,016.0 µg/mL	+/- 11.9744	µg/mL	Gravimetric
	CAS # 74-97-5 (Lot 00008541)		+/- 113.0617	µg/mL	Unstressed
	Purity 99%		+/- 115.7059	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

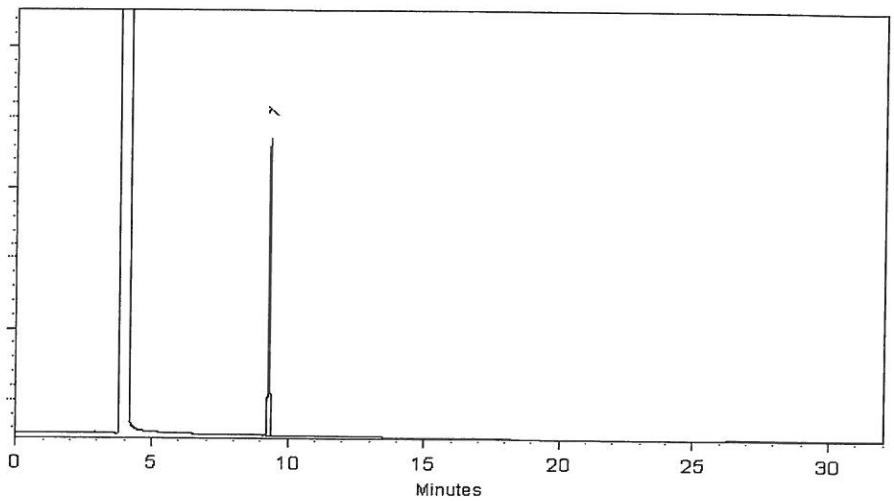
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 08-Sep-2021 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 10-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0176219

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane	2,016.0 µg/mL	+/- 11.9744	µg/mL	Gravimetric
	CAS # 74-97-5 (Lot 00008541)		+/- 113.0617	µg/mL	Unstressed
	Purity 99%		+/- 115.7059	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

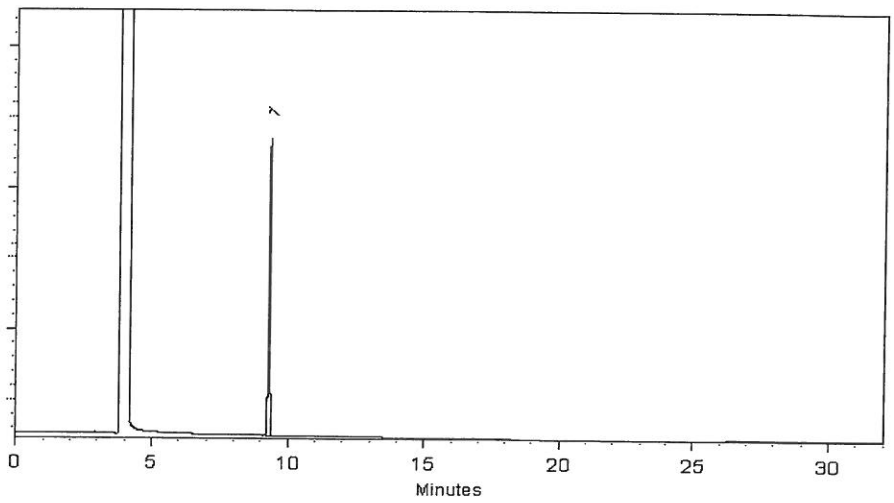
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 08-Sep-2021 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 10-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Bromochloromethane **CAS #** 74-97-5 (Lot 00008541) **Purity** 99%	2,016.0 µg/mL	+/- 11.9744 µg/mL +/- 113.0617 µg/mL +/- 115.7059 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

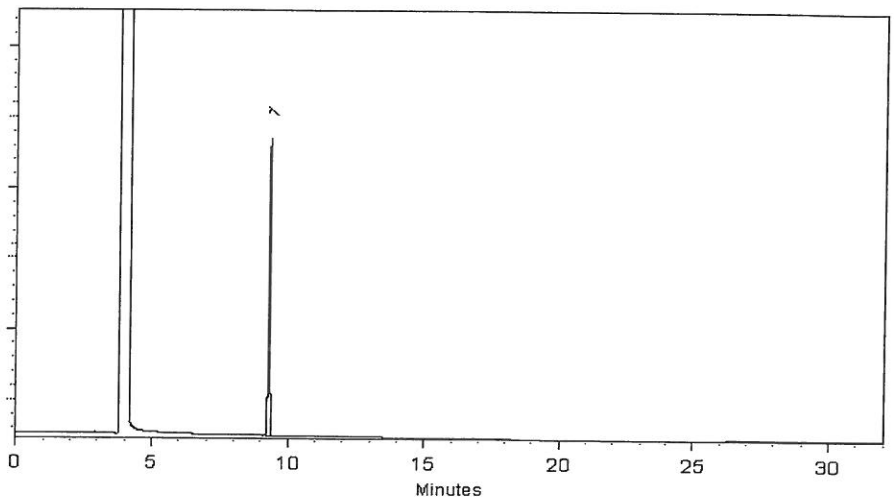
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 08-Sep-2021 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 10-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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- Purity values are rounded to the nearest whole number.

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- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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Description : Bromochloromethane Standard

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Container Size : 2 mL **Pkg Amt:** > 1 mL

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Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Bromochloromethane	2,016.0 µg/mL	+/- 11.9744	µg/mL	Gravimetric
	CAS # 74-97-5 (Lot 00008541)		+/- 113.0617	µg/mL	Unstressed
	Purity 99%		+/- 115.7059	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

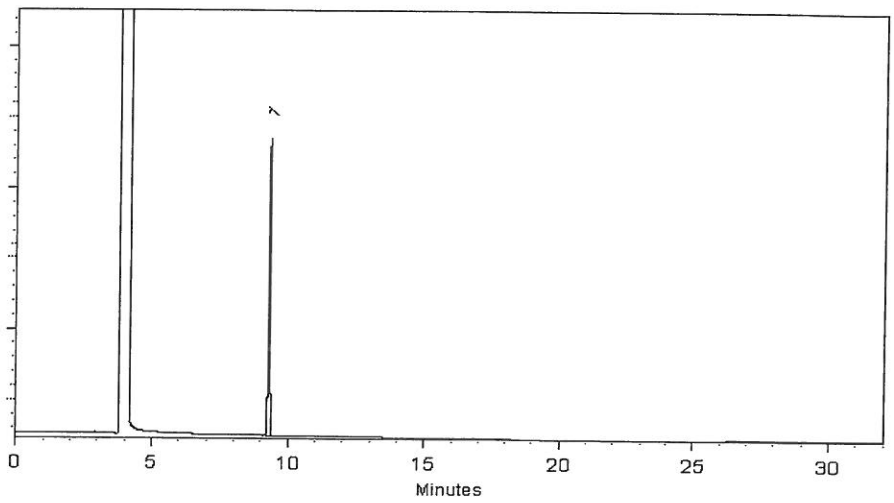
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 08-Sep-2021 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 10-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Analysis

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0176219

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Bromochloromethane **CAS #** 74-97-5 (Lot 00008541) **Purity** 99%	2,016.0 µg/mL	+/- 11.9744 µg/mL +/- 113.0617 µg/mL +/- 115.7059 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

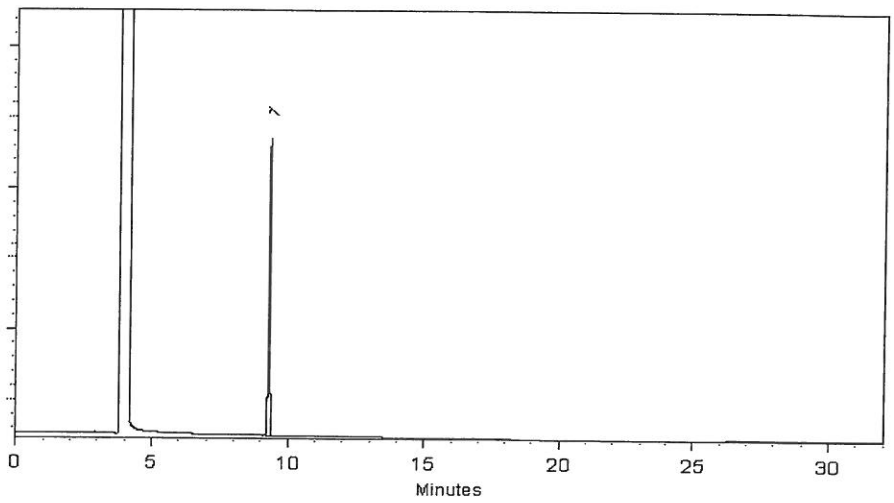
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dalton Stover - Operations Technician I

Date Mixed: 08-Sep-2021 **Balance:** 1128353505

Marlina Cowan - Operations Tech I

Date Passed: 10-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0187421

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot RD220630)	8,078.0 µg/mL	+/- 47.4062 µg/mL +/- 487.4241 µg/mL +/- 488.5812 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

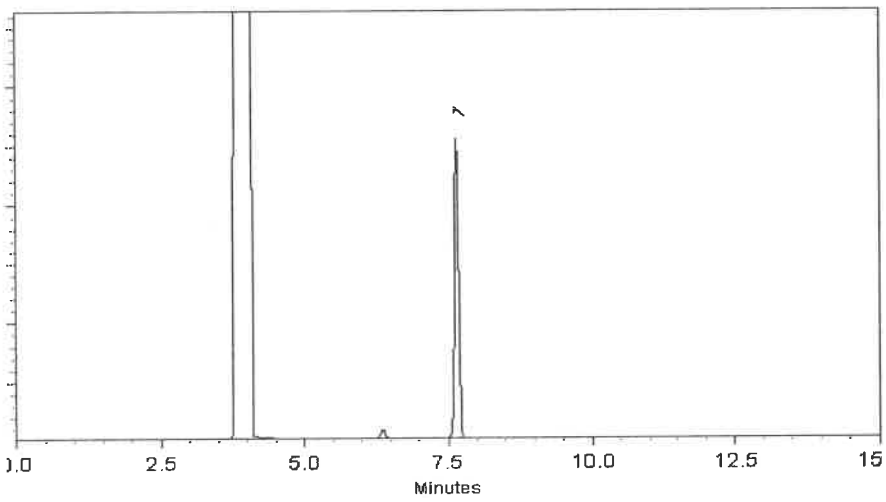
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 18-Jul-2022 **Balance:** B251644995

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 26-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0187421

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot RD220630)	8,078.0 µg/mL	+/- 47.4062 µg/mL +/- 487.4241 µg/mL +/- 488.5812 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

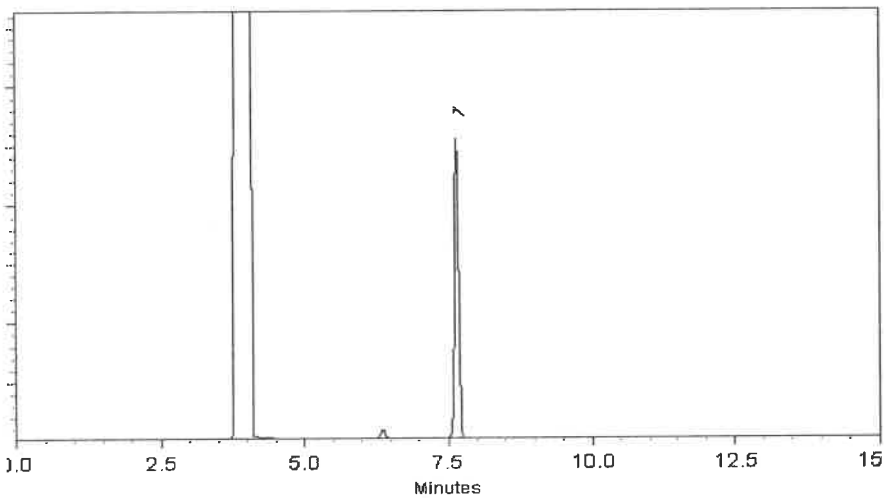
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 18-Jul-2022 **Balance:** B251644995

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 26-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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Label Conditions	Standard Conditions	Non-Standard Conditions
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 555408-SL **Lot No.:** A0187421

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 **Purity** 99% (Lot RD220630)	8,078.0 µg/mL	+/- 47.4062 µg/mL +/- 487.4241 µg/mL +/- 488.5812 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
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Rtx-502.2 (cat.#10910)

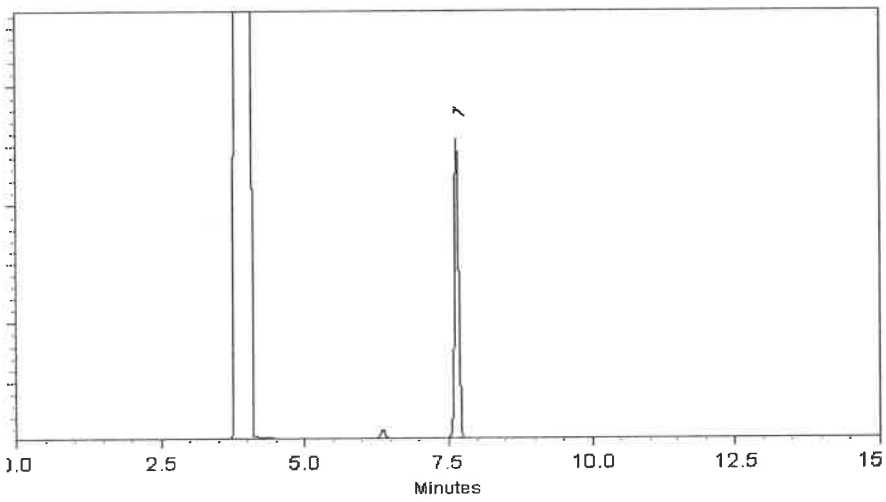
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 18-Jul-2022 **Balance:** B251644995

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 26-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0187421

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 (Lot RD220630) **Purity** 99%	8,078.0 µg/mL	+/- 47.4062 µg/mL +/- 487.4241 µg/mL +/- 488.5812 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

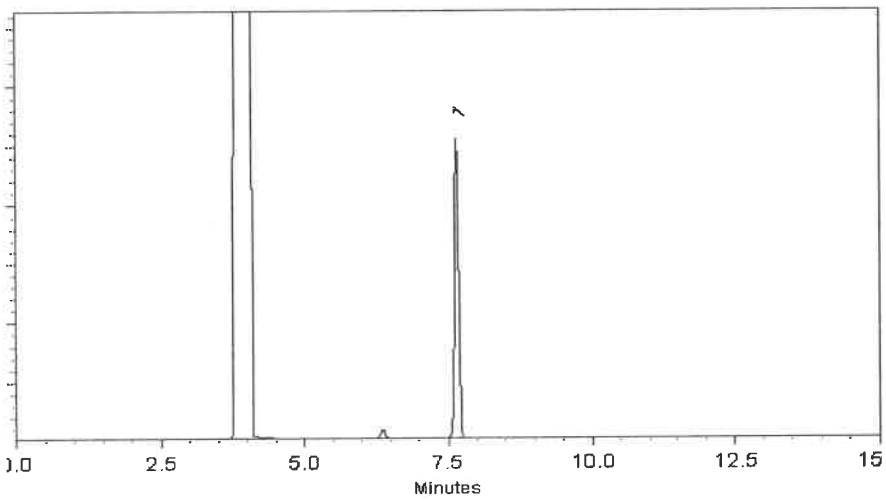
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery - Operations Tech I

Date Mixed: 18-Jul-2022 **Balance:** B251644995

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 26-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
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Certificate #32220t

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #32220.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0188819

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	(Lot 0001255 4)	2,019.1	µg/mL	+/- 13.7336	µg/mL	Gravimetric
	CAS # 75-71-8				+/- 113.4320	µg/mL	Unstressed
	Purity 99%				+/- 116.0758	µg/mL	Stressed
2	Chloromethane (methyl chloride)	(Lot SHBK6571)	2,019.1	µg/mL	+/- 14.0370	µg/mL	Gravimetric
	CAS # 74-87-3				+/- 113.4702	µg/mL	Unstressed
	Purity 99%				+/- 116.1132	µg/mL	Stressed
3	Vinyl chloride	(Lot 0001555 9)	2,018.0	µg/mL	+/- 14.5590	µg/mL	Gravimetric
	CAS # 75-01-4				+/- 113.4768	µg/mL	Unstressed
	Purity 99%				+/- 116.1169	µg/mL	Stressed
4	Bromomethane (methyl bromide)	(Lot 101604)	2,017.0	µg/mL	+/- 13.2023	µg/mL	Gravimetric
	CAS # 74-83-9				+/- 113.2515	µg/mL	Unstressed
	Purity 99%				+/- 115.8939	µg/mL	Stressed
5	Chloroethane (ethyl chloride)	(Lot 107-40103911 4-1)	2,019.0	µg/mL	+/- 14.2283	µg/mL	Gravimetric
	CAS # 75-00-3				+/- 113.4891	µg/mL	Unstressed
	Purity 99%				+/- 116.1314	µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	(Lot MKCL8411)	2,018.8	µg/mL	+/- 16.3342	µg/mL	Gravimetric
	CAS # 75-69-4				+/- 113.7612	µg/mL	Unstressed
	Purity 99%				+/- 116.3969	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline - Operations Technician I — Date Mixed: 22-Aug-2022 — Balance: B251644995

Christie Mills - Operations Tech II - ARM QC — Date Passed: 25-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #32220t

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #32220.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0188819

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	(Lot 0001255 4)	2,019.1	µg/mL	+/- 13.7336	µg/mL	Gravimetric
	CAS # 75-71-8				+/- 113.4320	µg/mL	Unstressed
	Purity 99%				+/- 116.0758	µg/mL	Stressed
2	Chloromethane (methyl chloride)	(Lot SHBK6571)	2,019.1	µg/mL	+/- 14.0370	µg/mL	Gravimetric
	CAS # 74-87-3				+/- 113.4702	µg/mL	Unstressed
	Purity 99%				+/- 116.1132	µg/mL	Stressed
3	Vinyl chloride	(Lot 0001555 9)	2,018.0	µg/mL	+/- 14.5590	µg/mL	Gravimetric
	CAS # 75-01-4				+/- 113.4768	µg/mL	Unstressed
	Purity 99%				+/- 116.1169	µg/mL	Stressed
4	Bromomethane (methyl bromide)	(Lot 101604)	2,017.0	µg/mL	+/- 13.2023	µg/mL	Gravimetric
	CAS # 74-83-9				+/- 113.2515	µg/mL	Unstressed
	Purity 99%				+/- 115.8939	µg/mL	Stressed
5	Chloroethane (ethyl chloride)	(Lot 107-40103911 4-1)	2,019.0	µg/mL	+/- 14.2283	µg/mL	Gravimetric
	CAS # 75-00-3				+/- 113.4891	µg/mL	Unstressed
	Purity 99%				+/- 116.1314	µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	(Lot MKCL8411)	2,018.8	µg/mL	+/- 16.3342	µg/mL	Gravimetric
	CAS # 75-69-4				+/- 113.7612	µg/mL	Unstressed
	Purity 99%				+/- 116.3969	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline - Operations Technician I — Date Mixed: 22-Aug-2022 — Balance: B251644995

Christie Mills - Operations Tech II - ARM QC — Date Passed: 25-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0188819

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	(Lot 0001255 4)	2,019.1	µg/mL	+/- 13.7336	µg/mL	Gravimetric
	CAS # 75-71-8				+/- 113.4320	µg/mL	Unstressed
	Purity 99%				+/- 116.0758	µg/mL	Stressed
2	Chloromethane (methyl chloride)	(Lot SHBK6571)	2,019.1	µg/mL	+/- 14.0370	µg/mL	Gravimetric
	CAS # 74-87-3				+/- 113.4702	µg/mL	Unstressed
	Purity 99%				+/- 116.1132	µg/mL	Stressed
3	Vinyl chloride	(Lot 0001555 9)	2,018.0	µg/mL	+/- 14.5590	µg/mL	Gravimetric
	CAS # 75-01-4				+/- 113.4768	µg/mL	Unstressed
	Purity 99%				+/- 116.1169	µg/mL	Stressed
4	Bromomethane (methyl bromide)	(Lot 101604)	2,017.0	µg/mL	+/- 13.2023	µg/mL	Gravimetric
	CAS # 74-83-9				+/- 113.2515	µg/mL	Unstressed
	Purity 99%				+/- 115.8939	µg/mL	Stressed
5	Chloroethane (ethyl chloride)	(Lot 107-401039114-1)	2,019.0	µg/mL	+/- 14.2283	µg/mL	Gravimetric
	CAS # 75-00-3				+/- 113.4891	µg/mL	Unstressed
	Purity 99%				+/- 116.1314	µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	(Lot MKCL8411)	2,018.8	µg/mL	+/- 16.3342	µg/mL	Gravimetric
	CAS # 75-69-4				+/- 113.7612	µg/mL	Unstressed
	Purity 99%				+/- 116.3969	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline - Operations Technician I
Date Mixed: 22-Aug-2022 **Balance:** B251644995

Christie Mills - Operations Tech II - ARM QC
Date Passed: 25-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0188819

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,019.1 µg/mL	+/- 13.7336 µg/mL +/- 113.4320 µg/mL +/- 116.0758 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,019.1 µg/mL	+/- 14.0370 µg/mL +/- 113.4702 µg/mL +/- 116.1132 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,018.0 µg/mL	+/- 14.5590 µg/mL +/- 113.4768 µg/mL +/- 116.1169 µg/mL	Gravimetric Unstressed Stressed
4	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,017.0 µg/mL	+/- 13.2023 µg/mL +/- 113.2515 µg/mL +/- 115.8939 µg/mL	Gravimetric Unstressed Stressed
5	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,019.0 µg/mL	+/- 14.2283 µg/mL +/- 113.4891 µg/mL +/- 116.1314 µg/mL	Gravimetric Unstressed Stressed
6	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 (Lot MKCL8411) **Purity** 99%	2,018.8 µg/mL	+/- 16.3342 µg/mL +/- 113.7612 µg/mL +/- 116.3969 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline - Operations Technician I — Date Mixed: 22-Aug-2022 — Balance: B251644995

Christie Mills - Operations Tech II - ARM QC — Date Passed: 25-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0190554

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot 103138L01T)	5,006.0 µg/mL	+/- 29.1053 µg/mL +/- 302.0342 µg/mL +/- 302.7512 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBN2844)	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBP4724)	5,001.7 µg/mL	+/- 29.0801 µg/mL +/- 301.7727 µg/mL +/- 302.4892 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCQ6663)	5,000.8 µg/mL	+/- 29.0753 µg/mL +/- 301.7224 µg/mL +/- 302.4388 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

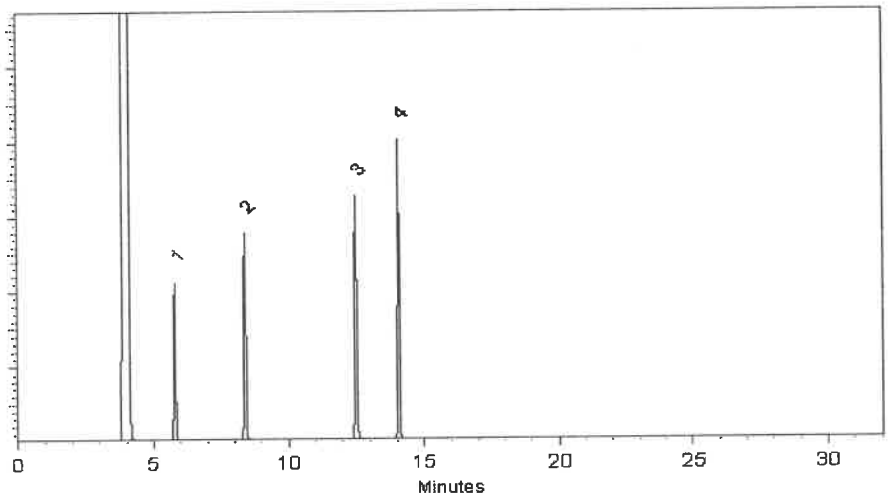
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0190554

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot 103138L01T)	5,006.0 µg/mL	+/- 29.1053 µg/mL +/- 302.0342 µg/mL +/- 302.7512 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBN2844)	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBP4724)	5,001.7 µg/mL	+/- 29.0801 µg/mL +/- 301.7727 µg/mL +/- 302.4892 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCQ6663)	5,000.8 µg/mL	+/- 29.0753 µg/mL +/- 301.7224 µg/mL +/- 302.4388 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

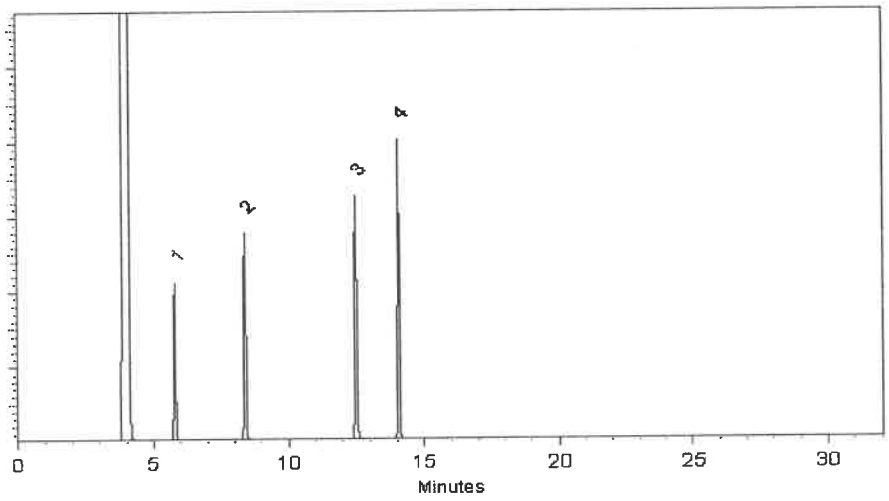
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0190554

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot 103138L01T)	5,006.0 µg/mL	+/- 29.1053 µg/mL +/- 302.0342 µg/mL +/- 302.7512 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBN2844)	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBP4724)	5,001.7 µg/mL	+/- 29.0801 µg/mL +/- 301.7727 µg/mL +/- 302.4892 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCQ6663)	5,000.8 µg/mL	+/- 29.0753 µg/mL +/- 301.7224 µg/mL +/- 302.4388 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

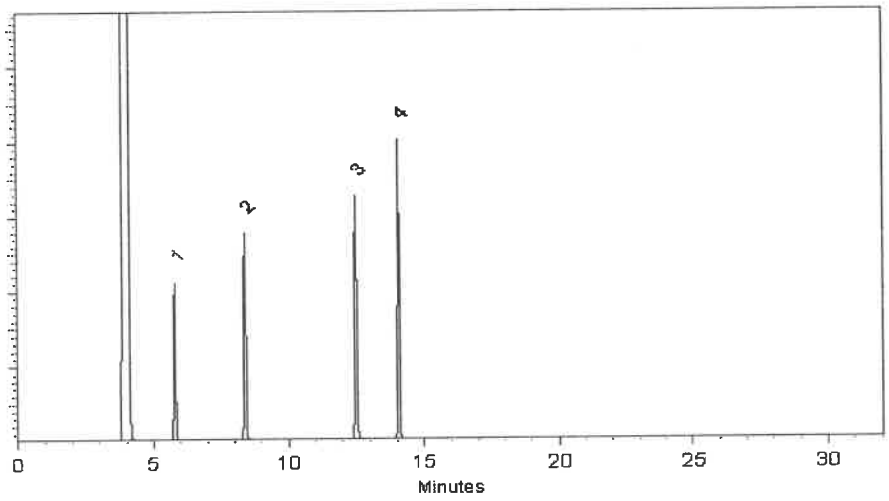
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0190554

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot 103138L01T)	5,006.0 µg/mL	+/- 29.1053 µg/mL +/- 302.0342 µg/mL +/- 302.7512 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBN2844)	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBP4724)	5,001.7 µg/mL	+/- 29.0801 µg/mL +/- 301.7727 µg/mL +/- 302.4892 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCQ6663)	5,000.8 µg/mL	+/- 29.0753 µg/mL +/- 301.7224 µg/mL +/- 302.4388 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

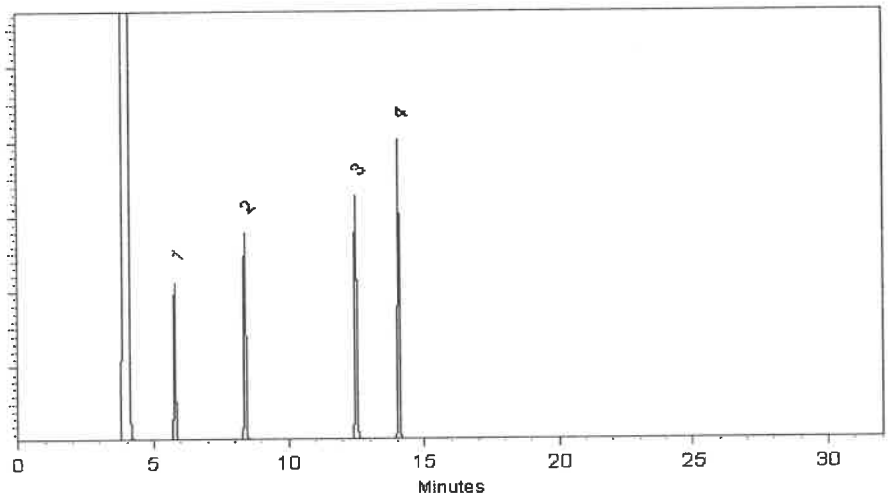
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0190554

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 **Purity** 99%	(Lot 103138L01T)	5,006.0 µg/mL	+/- 29.1053 µg/mL +/- 302.0342 µg/mL +/- 302.7512 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot SHBN2844)	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBP4724)	5,001.7 µg/mL	+/- 29.0801 µg/mL +/- 301.7727 µg/mL +/- 302.4892 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKCQ6663)	5,000.8 µg/mL	+/- 29.0753 µg/mL +/- 301.7224 µg/mL +/- 302.4388 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

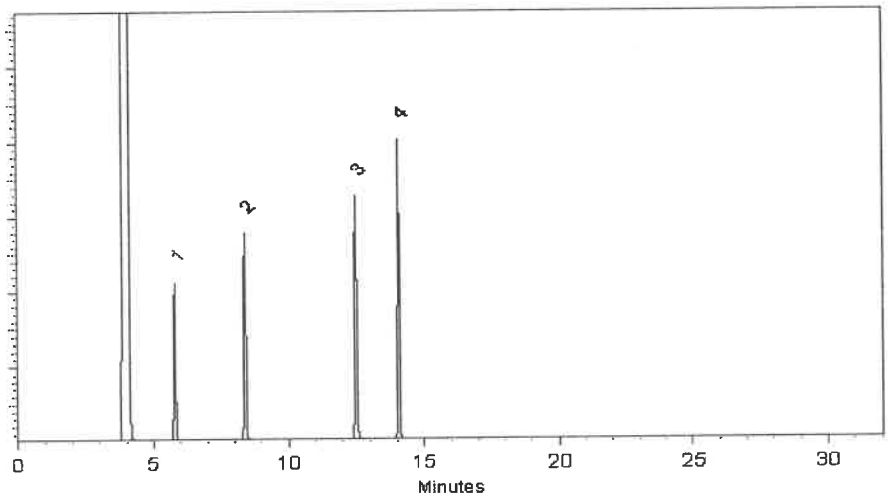
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
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250°C

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Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

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Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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Rtx-502.2 (cat.#10910)

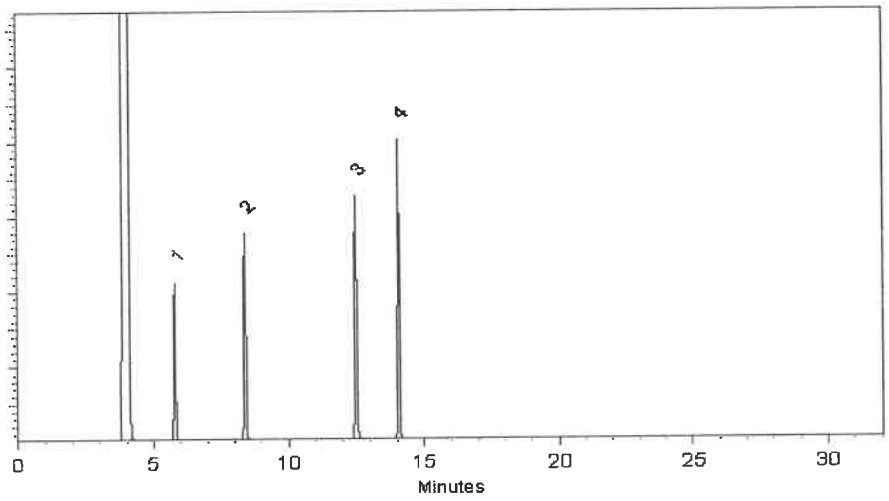
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Josh McCloskey - Operations Technician I

Date Mixed: 13-Oct-2022 **Balance:** B707717271

Fang-Yun Weaver - Operations Lead Tech - ARM QC

Date Passed: 17-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22C2362001
Manufactured Date: 2022-02-15
Expiration Date: 2025-02-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	< 0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

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Material No.: 9077-02
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For Laboratory,Research,or Manufacturing Use
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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 042921
Description: Universal VOA Megamix
69 components
Expiration Date: 042924
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

Solvent(s): Methanol Lot# DY186-USQ8

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By: Eli Aliaga 042921 DATE

Reviewed By: Pedro L. Rentas 042921 DATE

Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	060812	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20041	2002.0	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20233	2003.0	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCD9604	NA	NA	NA	2000	100	0.2	NA	0.20001	0.20015	2001.4	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21054	0.21060	2000.6	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20726	0.20751	2002.4	8.4	110-57-6	N/A	N/A
6. Diethyl ether (Ethyl ether)	(0153)	SHBK1918	NA	NA	NA	2000	99.9	0.2	NA	0.20023	0.20046	2002.3	8.1	60-29-7	400ppm (1200mg/m3/8H)	orl-rat 1215mg/kg
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20230	2002.7	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20130	2002.8	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20101	0.20123	2002.1	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20220	2001.7	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20046	2002.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20021	0.20048	2002.7	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20218	2001.5	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20556	0.20566	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20409	0.20418	2000.9	8.2	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20203	0.20221	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	100220	0.05	5.00	40018.8	2000	NA	NA	0.017	NA	NA	2000.8	18.4	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	100220	0.05	5.00	40007.7	2000	NA	NA	0.017	NA	NA	2000.3	18.4	124-48-1	N/A	orl-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	100220	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	100220	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	2000.2	18.4	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	100220	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	031821	0.10	10.00	20009.1	2000	NA	NA	0.042	NA	NA	2000.8	19.3	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	010419	0.10	10.00	20001.3	2000	NA	NA	0.042	NA	NA	2000.0	19.2	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	010419	0.10	10.00	20001.8	2000	NA	NA	0.042	NA	NA	2000.1	19.2	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	010419	0.10	10.00	20000.8	2000	NA	NA	0.042	NA	NA	2000.0	19.3	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	010419	0.10	10.00	20002.1	2000	NA	NA	0.042	NA	NA	2000.1	19.3	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	010419	0.10	10.00	20002.2	2000	NA	NA	0.042	NA	NA	2000.1	19.3	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	010419	0.10	10.00	20001.7	2000	NA	NA	0.042	NA	NA	2000.1	19.3	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	011421	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	011421	0.05	5.00	40003.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	011421	0.05	5.00	40004.9	2000	NA	NA	0.017	NA	NA	2000.1	18.4	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	011421	0.05	5.00	40002.2	2000	NA	NA	0.017	NA	NA	2000.0	18.4	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	011421	0.05	5.00	40013.9	2000	NA	NA	0.017	NA	NA	2000.6	18.4	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	011421	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2000.7	26.1	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	011421	0.05	5.00	40004.4	2000	NA	NA	0.017	NA	NA	2000.1	18.4	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	011421	0.05	5.00	40009.1	2000	NA	NA	0.017	NA	NA	2000.4	18.5	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	011421	0.05	5.00	40003.5	2000	NA	NA	0.017	NA	NA	2000.1	26.4	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.5	18.4	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	011421	0.05	5.00	40011.0	2000	NA	NA	0.017	NA	NA	2000.5	18.4	79-34-5	5 ppm (35mg/m3/9H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	011421	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.9	18.4	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	011421	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	2000.1	18.4	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	011421	0.05	5.00	40015.2	2000	NA	NA	0.017	NA	NA	2000.7	18.4	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	020821	0.05	5.00	40019.0	2000	NA	NA	0.017	NA	NA	2000.9	18.4	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	020821	0.05	5.00	40019.8	2000	NA	NA	0.017	NA	NA	2000.9	18.4	104-51-8	N/A	N/A
48. Ethyl benzene	35162	020821	0.05	5.00	40000.9	2000	NA	NA	0.017	NA	NA	1999.9	18.4	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	020821	0.05	5.00	40056.4	2000	NA	NA	0.017	NA	NA	2002.7	18.4	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	020821	0.05	5.00	40005.1	2000	NA	NA	0.017	NA	NA	2000.2	18.3	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	020821	0.05	5.00	40022.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	020821	0.05	5.00	40008.9	2000	NA	NA	0.017	NA	NA	2000.3	18.4	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	020821	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	020821	0.05	5.00	40027.4	2000	NA	NA	0.017	NA	NA	2001.3	18.4	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	020821	0.05	5.00	40012.4	2000	NA	NA	0.017	NA	NA	2000.5	18.4	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	020821	0.05	5.00	40011.5	2000	NA	NA	0.017	NA	NA	2000.5	18.5	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	020821	0.05	5.00	40021.8	2000	NA	NA	0.017	NA	NA	2001.0	18.4	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	022521	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.2	18.4	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	022521	0.05	5.00	40011.7	2000	NA	NA	0.017	NA	NA	2000.5	18.4	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	022521	0.05	5.00	40009.0	2000	NA	NA	0.017	NA	NA	2000.4	18.4	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	022521	0.05	5.00	40002.0	2000	NA	NA	0.017	NA	NA	2000.0	18.4	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	022521	0.05	5.00	40000.4	2000	NA	NA	0.017	NA	NA	1999.9	18.4	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	022521	0.05	5.00	40004.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	022521	0.05	5.00	40003.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	022521	0.05	5.00	40007.4	2000	NA	NA	0.017	NA	NA	2000.3	18.4	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	022521	0.05	5.00	40004.6	2000	NA	NA	0.017	NA	NA	2000.1	18.4	103-65-1	N/A	orl-rat 6040mg/kg
68. o-Xylene	35163	022521	0.05	5.00	40003.0	2000	NA	NA	0.017	NA	NA	2000.1	18.4	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	022521	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.2	18.4	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

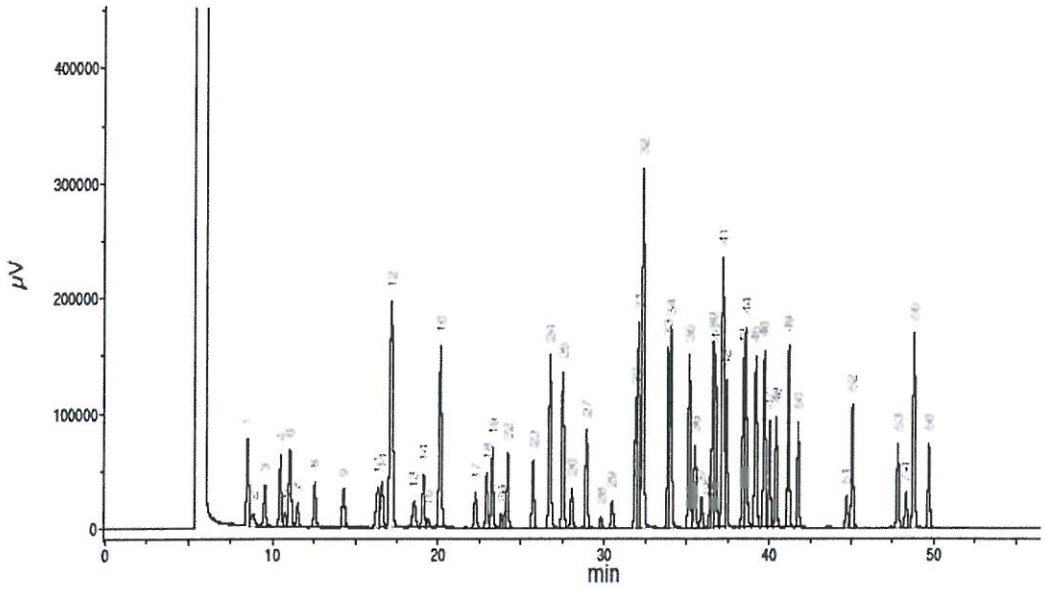
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 22, "P95317 L042921 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35999 points at 10 points/second.
Created: Thu, Apr 29, 2021 at 3:49:30 PM.
Sampled: Sequence "042521-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=4



Peak #	Analyte	FID RT (min.)
1	Ether	8.48
2	1,1,2-Trichloro-1,2,2-trifluoroethane	8.80
3	1,1-Dichloroethene	9.51
4	Acetonitrile	10.44
5	Iodomethane	10.71
6	Allyl chloride	11.02
7	**Carbon disulfide/Methylene chloride**	11.51
8	trans-1,2-Dichloroethene	12.55
9	1,1-Dichloroethane	14.28
10	2,2-Dichloropropane	16.33
11	cis-1,2-Dichloroethene	16.59
12	**Methacrylonitrile/Methyl acrylate/Chloroform**	17.14
13	**Isobutanol/1,1,1-Trichloroethane**	18.52
14	1,1-Dichloropropene	19.08
15	Carbon tetrachloride	19.39
16	**Benzene/1,2-Dichloroethane**	20.10
17	Trichloroethene	22.23
18	1,2-Dichloropropane	22.92
19	Methyl methacrylate	23.26
20	Bromodichloromethane	23.79
21	Dibromomethane	23.98
22	2-Nitropropane	24.18
23	cis-1,3-Dichloropropene	25.71
24	Toluene	26.71
25	**Ethyl methacrylate/trans-1,3-Dichloropropene**	27.50
26	1,1,2-Trichloroethane	28.04
27	**Tetrachloroethene/1,3-Dichloropropane**	29.92
28	Dibromochloromethane	29.79
29	1,2-Dibromoethane	30.46
30	Chlorobenzene	31.89
31	**Ethylbenzene/1,1,1,2-Tetrachloroethane**	32.07
32	**m-Xylene/p-Xylene**	32.33
33	o-Xylene	33.87
34	Styrene	34.04
35	**Isopropylbenzene/Bromoform**	35.14
36	cis-1,4-Dichloro-2-butene	35.49
37	1,1,2,2-Tetrachloroethane	35.90
38	**1,2,3-Trichloropropane**	36.34
39	**n-Propylbenzene**	36.58
40	**trans-1,4-Dichloro-2-butene/Bromobenzene**	36.73
41	**1,3,5-Trimethylbenzene/2-Chlorotoluene**	37.17
42	4-Chlorotoluene	37.38
43	tert-Butylbenzene	38.41
44	**1,2,4-Trimethylbenzene/Pentachloroethane**	38.55
45	sec-Butylbenzene	39.16
46	p-Isopropyltoluene	39.68
47	1,3-Dichlorobenzene	40.01
48	1,4-Dichlorobenzene	40.42
49	n-Butylbenzene	41.16
50	1,2-Dichlorobenzene	41.74
51	1,2-Dibromo-3-chloropropane	44.68
52	Nitrobenzene	45.04
53	1,2,4-Trichlorobenzene	47.80
54	Hexachlorobutadiene	48.29
55	Naphthalene	48.76
56	1,2,3-Trichlorobenzene	49.66

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** May 1, 2019

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0147670

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,511.0 µg/mL	+/- 14.7360 µg/mL +/- 140.8035 µg/mL +/- 144.0975 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

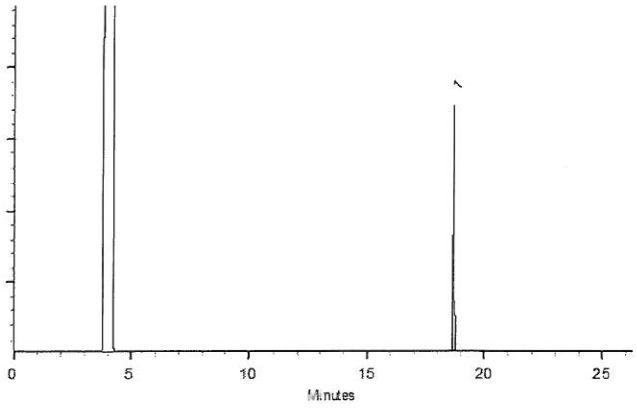
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dustin J. Lidgett

Dustin Lidgett - Mix Technician

Date Mixed: 01-Apr-2019 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

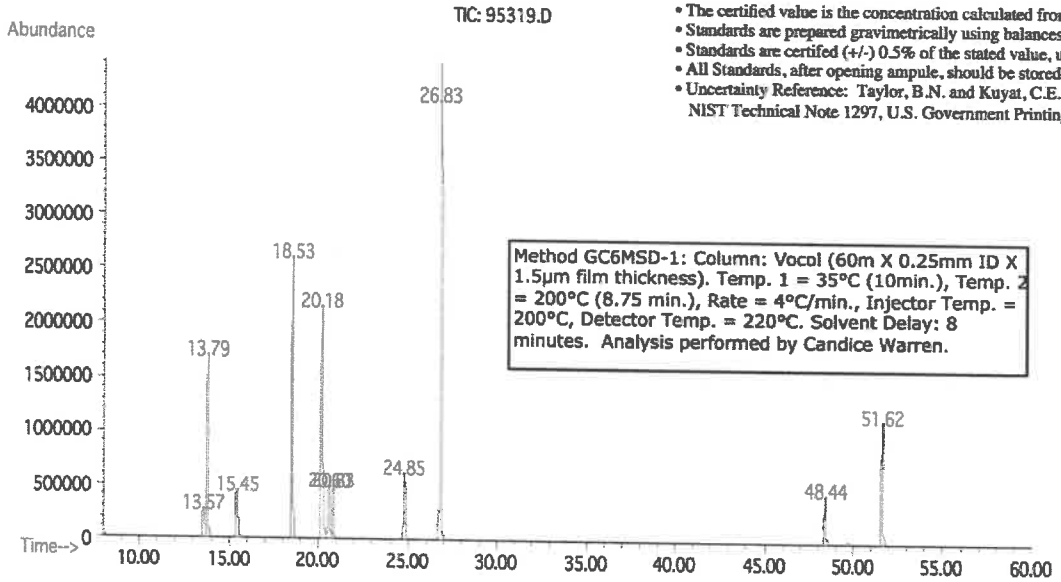
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methanol	EC592-US

Weight(s) shown below were combined and diluted to (mL): 100.0 | 0.012 Flask Uncertainty | 5E-05 Balance Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1850mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards Inc.

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Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

O3631-VOCMS Group1

Absolute Standards Inc.

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Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

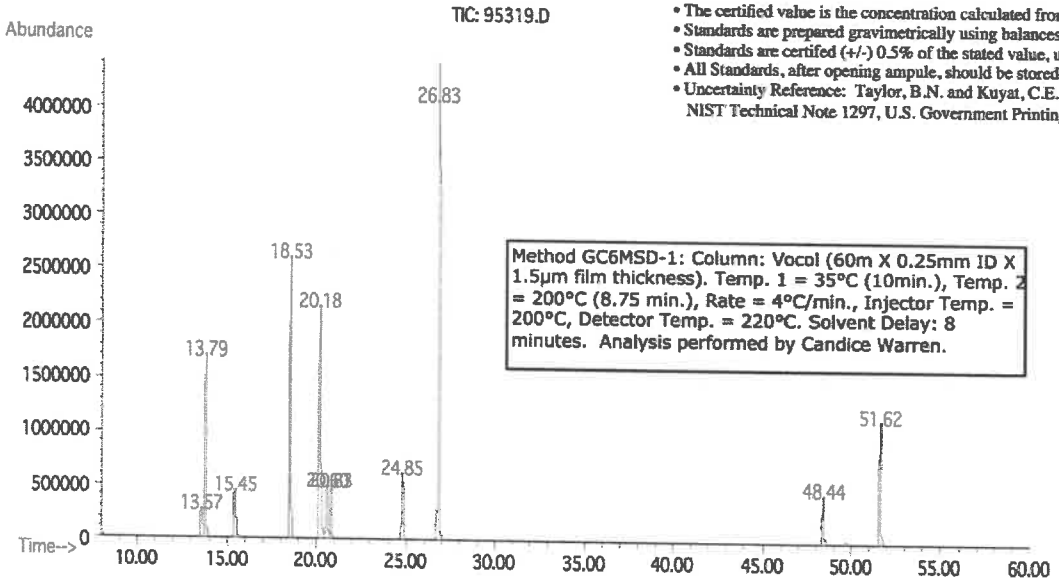
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methanol	EC592-US

Weight(s) shown below were combined and diluted to (mL): 100.0 | 0.012 Flask Uncertainty | 5E-05 Balance Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7. Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8. Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1850mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards Inc.

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Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Revised
1518 of 1531

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

O3631-VOCMS Group1

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

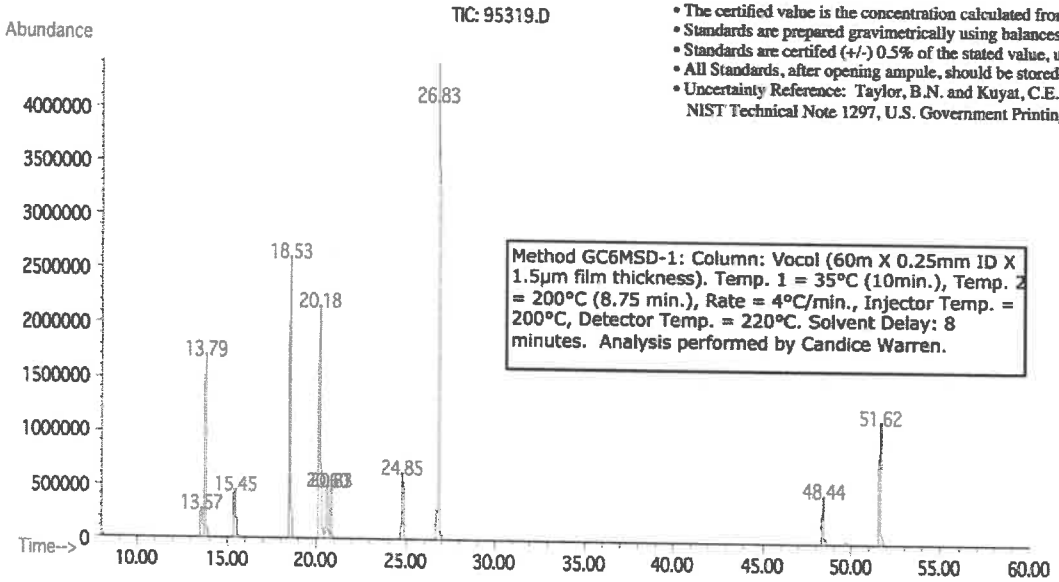
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methanol	EC592-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1850mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

O3631-VOCMS Group1

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

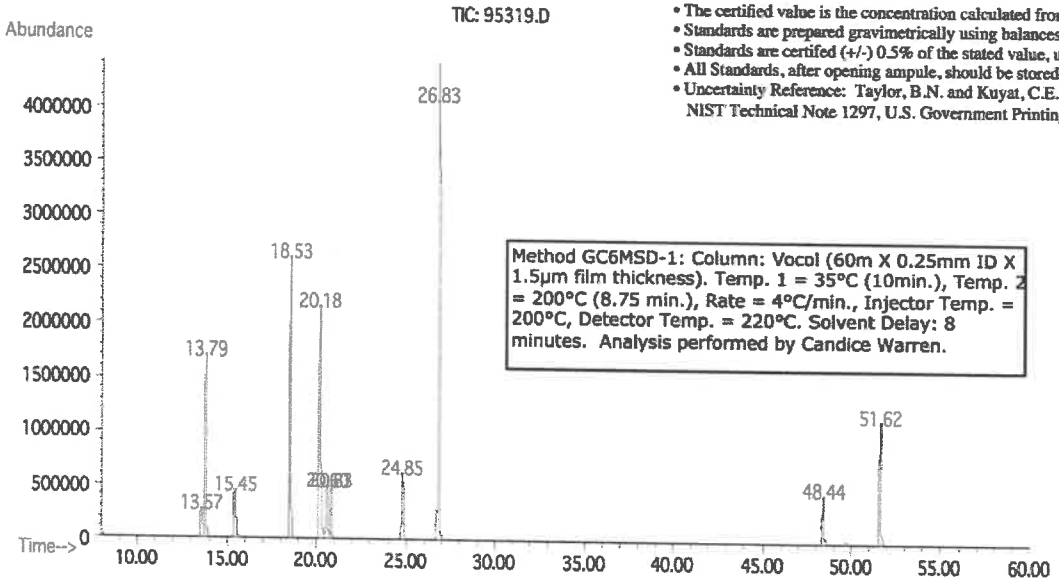
Part Number: 95319
Lot Number: 032922
Description: Revised Additions Mix
11 components
Expiration Date: 032925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EC592-US

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922 DATE
Reviewed By:	Pedro L. Rentas	032922 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01015	1.01030	10001.5	40.5	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20003	0.20020	2001.7	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20203	0.20215	2001.2	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04060	4.04100	40004.0	161.9	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	08046KN	2000	99	0.2	0.20203	0.20215	2001.2	8.2	108-87-2	N/A	N/A
8.	Methyl tert-butyl ether (MTBE)	209	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A	orl-rat 4g/kg
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10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00105	1.00120	10001.5	40.1	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21506	0.21520	2001.3	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

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Phone: 203-281-2917
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Revised
1524 of 1531

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2022

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components:	CAS#:	LD50 Oral - Rat	OSHA PEL	% (optional)
Methanol	67-56-1	2,769 mg/kg	200 ppm	> 99

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

O3631-VOCMS Group1

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092, Phone : 908 789 8900, Fax : 908 789 8922

Preservation Log

BalanceID: VOC-SC-1

Review By: pedro

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	O3631-01	35.18-31.229=3.95	13:00	36.37-31.380=4.99	13:01	35.96-29.680=6.28	13:02	V13654	07/14/2023	TERRACORE SAMPLE STORED IN FRZ #2
2	O3631-02	37.02-31.375=5.65	13:03	37.94-31.672=6.27	13:04	35.35-29.693=5.66	13:05	V13654	07/14/2023	
3	O3631-03	37.52-30.992=6.53	13:06	38.41-31.326=7.08	13:07	36.16-29.701=6.46	13:08	V13654	07/14/2023	
4	O3631-04	37.08-30.822=6.26	13:09	38.37-31.086=7.28	13:10	36.33-29.757=6.57	13:11	V13654	07/14/2023	
5	O3631-05	37.72-30.961=6.76	13:12	36.30-31.276=5.02	13:13	35.34-29.882=5.46	13:14	V13654	07/14/2023	
6	O3631-06	36.26-31.472=4.79	13:15	37.38-30.797=6.58	13:16	35.49-29.839=5.65	13:17	V13654	07/14/2023	
7	O3631-07	37.05-31.090=5.96	13:18	36.79-30.995=5.79	13:19	36.97-29.778=7.19	13:20	V13654	07/14/2023	
8	O3631-08	36.31-31.185=5.13	13:21	34.90-30.943=3.96	13:22	35.40-29.588=5.81	13:23	V13654	07/14/2023	
9	O3631-09	39.01-31.173=7.84	13:24	37.44-30.925=6.51	13:25	36.31-29.806=6.5	13:26	V13654	07/14/2023	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

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SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. 03631
QUOTE NO.
COC Number 2038972

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: LaBella Associates
ADDRESS: 300 Pearl St Suite #130
CITY Buffalo STATE: NY ZIP: 14202
ATTENTION: Andy Benklemen
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 613 Pine
PROJECT NO.: LOCATION: 613 Pine
PROJECT MANAGER: Andy Benklemen
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 TCL+CP-51 VOCs 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	SB-02 (2-4) →	S	X	X	7/11/23	1215	3	X									MS/MSD
2.	SB-04 (2-4)	S	X		7/11/23	1245	1	X									
3.	SB-07 (3-5)	S	X		7/11/23	1345	1	X									
4.	SB-09 (3-5)	S	X		7/11/23	1415	1	X									
5.	SB-10 (5-6)	S	X		7/12/23	1025	1	X									
6.	SB-11 (3.5-4.5)	S	X		7/12/23	1015	1	X									
7.	Dup	S	X		7/11/23		1	X									
8.	Rinsate Blank	W		X	7/12/23	1130	1	X									
9.																	
10.																	

Specify Preservatives: A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/11/23	1. Sample Fridge/Freezer
2.	7/12/23	2. FEDEX
3.	7/14/23 10:10	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.6 °C
Comments: SB-02 to SB-09 + Dup frozen on 7/11/23 @1600
#1 Cooler

Page ___ of ___

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3631 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/14/2023 10:29:50 AM
Project Name : 613 Pine Avenue
Receive DateTime : 7/14/2023 10:10:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O3631-01	SB-02(2-4)	Solid	07/11/2023	12:15					
					VOCMS Group1		8260D		10 Bus. Days
O3631-02	O3631-01MS	Solid	07/11/2023	12:15					
					VOCMS Group1		8260D		10 Bus. Days
O3631-03	O3631-01MSD	Solid	07/11/2023	12:15					
					VOCMS Group1		8260D		10 Bus. Days
O3631-04	SB-04(2-4)	Solid	07/11/2023	12:45					
					VOCMS Group1		8260D		10 Bus. Days
O3631-05	SB-07(3-5)	Solid	07/11/2023	13:45					
					VOCMS Group1		8260D		10 Bus. Days
O3631-06	SB-09(3-5)	Solid	07/11/2023	14:15					
					VOCMS Group1		8260D		10 Bus. Days
O3631-07	SB-10(5-6)	Solid	07/12/2023	10:25					
					VOCMS Group1		8260D		10 Bus. Days
O3631-08	SB-11(3.5-4.5)	Solid	07/12/2023	11:15					
					VOCMS Group1		8260D		10 Bus. Days
O3631-09	DUP	Solid	07/11/2023	00:00					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3631 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/14/2023 10:29:50 AM
Project Name : 613 Pine Avenue
Receive DateTime : 7/14/2023 10:10:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 2
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260D	10 Bus. Days	
O3631-10	RINSATE-BLANK	Water	07/12/2023	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :
Date / Time : 7/14/23 12:00

Received By :
Date / Time : 7/14/23 12:10

Storage Area : VOA Refridgerator Room

Rgt 6
F2
Rgt 4